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ABSTRACT

This document, a byproduct of the National Longitudinal Study of the High School Class of 1972, provides data on what postsecondary courses are actually taken both by school completers and school leavers, based on analysis of postsecondary transcripts from 1972 to 1984 of 12,600 students graduating from high school in 1972. Also presented is a revised Classification of Instructional Programs (CIP) coding system based on recoding the 485,000 instances of course-taking in the sample. The tentative new taxonomy and decision rules were reviewed by faculties in the appropriate fields prior to final application. Data from the study are presented in tabular form and include the following: percentage of students completing undergraduate courses in 1,037 course categories; percentage of students completing undergraduate courses in 103 aggregate course categories; and distribution of all completed courses by type of institution. Additional data presented cover: basic demography and high school backgrounds of students; highest degree earned; college scholarship support; basic demography of 2/4-year and transfer attendance patterns; date of bachelor's degrees; date of associate's degrees; course of study and degrees earned beyond the bachelor's; and college experiences/attainments. (DB)

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A College Course Map

Taxonomy and Transcript Data

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A College Course Map

Taxonomy and Transcript Data

Based on the Postsecondary Records, 1972-1984,
of the High School Class of 1972

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CONTENTS

Acknowledgments iii

Reviewers, Consultants, and Friendly Advisers vii

Part I: The Map

Making the Map: Principles and Process 1

The Taxonomy: Revised Version of the Classification of Instructional Programs as Applied to Postsecondary Courses 13

Part II: Data from the Map

Percentage of NLS/PETS Students Completing Undergraduate Courses, 1972-1984, in 1,037 Course Categories 141

Percentage of NLS/PETS Students Completing Undergraduate Courses, 1972-1984, in 103 Aggregate Course Categories 167

Distribution of All Completed Courses, 1972-1984, by Type of Institution 171

Part III: Preview of Coming Attractions

The NLS/72 and NLS/PETS Samples 241

Basic Demography and High School Backgrounds of NLS/72 and NLS/PETS Students 244

Highest Degree Earned by NLS/PETS Students, 1972-1984 245

College Scholarship Support to the High School Class of 1972, 1972-1979 246

Basic Demography of 2/4-Year and Transfer Attendance Patterns, 1972-1984 247

Date of Bachelor's Degree for NLS/PETS Students 248

Date of Associate's Degree for NLS/PETS Students 249

After the Bachelor's: Courses of Study and Degrees Earned, through 1984 250

Bachelor's Degree Majors of NLS/PETS Students 251

College Experiences/Attainments of Bachelor's Degree Holders in the NLS/PETS 252

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Making the Map:
Principles and Process

What, specifically, do we study after high school? What knowledge is the Nation acquiring in colleges, community colleges, trade schools, and other postsecondary institutions? Answers to these basic questions are important in assessing the quality of our workforce and cultural life. Answers to these questions are important in advising individuals on how to prepare for the challenges of adulthood, for helping state higher education agencies monitor educational services to different populations, and for guiding the Nation in preparing for economic, political, and social challenges of the coming century.

The most accessible answers to these questions, unfortunately, are both too general to be very useful and too narrow in their sources. That is, the computers whirring with national data can answer the questions only with reference to degrees and credentials actually awarded and only in terms of the dominant field, or "major" of those credentials. We can easily provide information on how many Associate's degrees were awarded in Nursing or how many Bachelor's degrees in Accounting or how many Doctoral degrees in History. Such information is helpful but limited. It doesn't tell us, for example, how much science the Nurses studied or what kind of science it was, hence how well Nursing graduates are prepared to adapt to changes in biomedicine.

Nor does it tell us about all those students--40% of those who continue their education after high school--who never earn a formal credential. What did they study? And how much? After all, they also enter the workforce and community life, and bring with them whatever knowledge they have acquired in postsecondary education. Did a large proportion of them study business subjects, for example? If so, what kind of business--accounting, marketing, finance, personnel? If we know the answers, we can judge better the resident knowledge in different sectors of our economy. And if national policy is designed to encourage people to complete degrees and credentials, knowledge of the curriculum pursued by non-completers is necessary for analysis and guidance.

To answer these questions requires detailed empirical data on the courses actually studied by students after high school. Those data are available only from transcripts generated by students as they pass through colleges, community colleges, trade schools, etc. Fortunately, there are a few national samples of postsecondary transcripts in existence that provide such detailed data. But the variety of course titles, departments of instruction, and allied data (credits, terms, grades) on those transcripts is infinite. Without a map of curriculum, without a system to describe those courses economically and with consistency, it is very difficult to negotiate the terrain and answer the questions.

The intent of this volume is to provide just such a map, and to demonstrate the data it can yield.

Origins of this Volume

The initial purpose of this project was to arrive at a credible and empirically viable taxonomy of course categories with which to analyze the college transcripts of 12,600 students in the Postsecondary Education Transcript Sample (PETS) of the National Longitudinal Study of the High School Class of 1972. The NLS/PETS is the oldest, largest, and most extensive (12 years of coverage) of all college transcript samples; and the NLS/72, as a whole, is the richest archive ever assembled on a generation of Americans, tracking them from high school through age 32. An accurate and detailed postsecondary transcript collection was necessary for staff in the Office of Educational Research and Improvement (OERI) to engage in a series of analyses on the nature and effects of postsecondary education in the life of this generation. These analyses will be published as a collection, Archives of a Generation, in the fall of 1990.

This reference volume is a by-product of those efforts. Our "radar screen" indicated that hundreds of colleges, community colleges, and universities were engaging in serious efforts to track the changing curricular experiences of their students. In the process, they were paradoxically using idiosyncratic taxonomies while wondering how their students' experiences compared to those of students at other institutions. What we offer here is an inductive taxonomy of postsecondary curricula based on the actual course-taking of a generation, a taxonomy that institutions may use and modify in their attempts to understand the nature and effects of the student experience of curriculum.

A Word About the NLS/72

The NLS/72 began with a sample of 22,600 students in their senior year of high school. The archive consists of high school records, test scores, five surveys (1972, 1974, 1976, 1979, and 1986), and the Postsecondary Transcript Sample (1984). The extraordinary loyalty of the anonymous participants in this longitudinal study may be indexed by the fact that in 1986, some 14 years after graduating from high school, 12,800 of them (88% of those asked) filled out a 65-page questionnaire covering virtually every aspect of their lives between age 25 and 32.

In 1979 (the 4th Follow-Up Survey), roughly 14,750 of the original 22,600 students claimed to have attended one or more postsecondary institutions since graduating from high school, and subsequently granted OERI permission to obtain their transcripts. One or more valid transcripts were gathered in 1984 for 85% of this group. Much of the 15% difference can be easily accounted for: school closed (principally proprietary schools), records lost or destroyed, or student enrolled but either not long enough to generate a transcript or was classified as a special, non-credit student.

The postsecondary transcripts were originally (1984) coded by temporary office workers using the 1981 version of The Classification of Instructional Programs (CIP). The CIP system, created by the National Center for Education Statistics, has served as the *de facto* national standard for reporting enrollments and credentials in postsecondary *programs* since 1981.

Programs are not courses, and the CIP taxonomy was not designed with transcript analysis in mind. Nonetheless, it had been used to code postsecondary transcripts in all the longitudinal studies sponsored by the National Center for Education Statistics. We thus inherited the basic CIP system and its transcript applications as a given.

Previous assessment by OERI staff determined that approximately 40% of the 485,000 instances of course-taking recorded in the NLS/PETS transcript sample were not coded accurately, and that the "miscoding" was as much a function of the CIP system as it was the result of limited technology and quality control in the coding process. Other agencies, including the Commission on Workforce Quality of the U.S. Department of Labor and the National Science Foundation, reviewed this assessment and recognized the incredible potential of this database once it was cleaned. Both agencies thus provided financial support for this project.

Basic Order and Marching Orders

Hence, we undertook the recoding of the data base, including a reconstruction and reconfiguration of the CIP system according to preestablished criteria and rules. In so doing, however, we chose to retain the basic order and structure of the CIP, to wit:

- six-digit codes for each course/program, the first two of which indicated a broad field;
- fifty broad fields, arranged in alphabetical order from Agribusiness to Visual and Performing Arts;
- the use of "99" as the last two digits of a six-digit code to designate either indeterminable, missing, or other entries;
- the use of "01" as the last two digits of a six-digit code to designate general treatments of the subject matter.

While we made some obvious semantic adjustments for purposes of coding courses (as opposed to programs): e.g., "01" designates *introductory*-level courses in fields where distinctions between the general/introductory course and upper-level courses are made; we kept this basic order and structure because it did the least violence to a system that was already familiar to college registrars, institutional research officers, state departments of higher education, and other users.

Whether applied to credentials or courses, the CIP system has considerable faults as a taxonomy, and, in my opinion, ought to be scrapped and built de novo (over 100 of the 1,100 categories in the 1985 edition of the CIP failed to yield any data whatsoever on credentials awarded at any level of postsecondary education in 1986, and another 100 yielded minimal instances). But this project was not the place in which to engage in that undertaking.

Initially, we focused recoding efforts on (a) CIP codes cancelled by the National Center for Education Statistics between the 1981 and 1985 editions of the CIP, codes that were nonetheless used in the 1984 coding of the NLS/PETS; (b) the nearly 25% of all instances of course-taking that were assigned to the various "99" ("Other") categories; and (c) the various "01" ("General") codes in those disciplines for which there was more than one code. Our objective was to render the unknown, known; and the general, specific. In examining the original coding of the transcripts, an ancient truism was reinforced: the word "other" invites abuse. Any category governed by such a word too easily becomes a garbage pail into which difficult problems and indeterminate realities are dumped.

After these tasks had been completed, we branched out to the other categories. In all, we reviewed entries under 850 of the original 1,099 CIP codes, and reclassified entries under 720 of those. In the process, we deleted 400 course categories and created 338 new categories.

Deletions and Additions: The Empirical Criteria

We observed an a priori rule that no course category would be maintained in the taxonomy unless there was sufficient empirical evidence for doing so. Six-digit CIP code categories were thus deleted if (a) they were redundant or unnecessary in light of other categories and/or if course titles could be placed more accurately in another category, or (b) they produced fewer than 22 valid instances of course-taking. The threshold of 22 was determined after the first of five major rounds of recoding, and was based on mean enrollments minus one standard deviation across all CIP codes after removal of outlying cases. There were three a priori exceptions to the 22-case threshold rule: (a) courses in which the subject matter has a direct relationship to national security interests, e.g. less commonly taught foreign languages; (b) courses in which the subject matter directly and explicitly concerns the history, culture, or experience of major U.S. minority groups; and (c) categories that, if eliminated, would leave no logical place in the entire system for the subject matter.

As for new codes, the vast majority resulted from disaggregations of categories of major disciplines in which the existing CIP system offered only one code, e.g. Anthropology, Economics, Geography, History, Political Science, and Sociology. Others resulted from reconfigurations of fields in which the existing system distorted the presentation of student course-taking, e.g. Computer Science, Mathematics, Biological Sciences, or in fields for which we needed finer discrimination to accommodate special analyses, e.g. English, Music, and Physical Education Activities.

Traces of Consensus and the Taxonomy of Courses

The new categories/codes created in the processes of disaggregation or reconfiguration were drawn from one or more of the following:

(a) where they existed, content specifications for Graduate Record subject examinations;
(b) indices of sub-fields in the major journals of the disciplines;
(c) categories used in surveys by such organizations as the National Research Council, the Mathematical Sciences Education Board, and the Modern Language Association;
(d) statements on college curriculum by professional and accrediting bodies such as the American Chemical Society and the American Assembly of Collegiate Schools of Business;
(e) the empirical character of the database itself, e.g. if there were 200 "Animal Behavior" titles previously classified as "Zoology: Other," they were pulled and reassigned to a new and unique code;
(f) the advice of representatives of disciplinary associations who attended a series of open meetings conducted in 1989 by the National Center for Education Statistics to discuss revision of the CIP system for purposes of reporting degrees and program enrollments; and
(g) the advice of 50 consultants, friendly advisers, and members of faculty review teams (see pp. vii-viii).

The first postulate informing this effort was that any field leaves unobtrusive traces of consensus concerning its content, and that those traces are public evidence, carrying higher authority than the testimony of individuals. *De facto* national examinations constructed with the advice and consent of representatives of scholarly or professional organizations constitute one such collection of evidence; indices of the literature included in the major journals of those fields (journals in which editorial committees represent the entire field) constitute another. To be sure, the indices reflect research and applications emphases, and thus are often too detailed to serve as a taxonomy of postsecondary instruction. But the indices are very much like an official topographical map, providing three-dimensional information on existing and emerging sub-fields.

This map is obviously colored and shaded by instructional and curricular practice, and by student choice behavior. It is for this reason that we did not rely on college catalogues for the taxonomy, since catalogue entries are too often wish lists of what may or may not be offered in course schedules, and certainly do not tell us what was actually studied.

Our second postulate was to be fair to the empirical character of a database that reflects the curriculum of the period, 1972-1982. It is likely that the course titles and categories of the following decade (1982-1992) will look somewhat different. But we won't know for certain until the 10-year postsecondary transcript sample for the "High School and Beyond/Sophomores" (Class of 1982) has been gathered.

The Primacy of Subject

In classifying courses, we observed the principle that subject matter took precedence over department of instruction. A course in "The Neurological Bases of Behavior," for example, could be offered by a Biology Department, a Psychology Department, or some other unit. For purposes of this taxonomy, however, we have a single slot for Neuroscience courses. It makes no sense to have more than one. Where there were exceptions to this principle, most were grounded in academic custom and usage, e.g. "Criminal Procedure" taught in a law school is not the same course as "Criminal Procedure" taught in a police academy.

Furthermore, the department of instruction is too often determined by the size, organizational complexity, and mission of an institution. In smaller institutions, fields such as sociology, anthropology, demography, and urban studies, are often combined in the same department. Large research universities have separate departments for all of these fields. Some community colleges have one department for all of "science." Institutional size, complexity, and mission are but tangentially related to the map of learning.

From a national perspective, there are two related reasons for the primacy of subject matter, reasons that do not emerge in typical applications of transcript information in individual colleges or other postsecondary institutions:

(1) Providing Information to Policy-Makers on the Knowledge-Content of Work/Manpower Preparation.

That is, we want to estimate particular kinds of knowledge or skills that are being brought into the workforce by former students. For example, we might like to know how many people have studied sign language (usually AMESLAN) as an estimate of the potential workforce for assisting the deaf. If we code the courses all over the place (Audiology, Special Education, Health

Services), we will never be able to make that estimate. In our version of the CIP system and in our decision rules, there is only one place for all course titles with the words "sign language," "AMESLAN," or "manual communication."

(2) Providing Information to Learned and Professional Societies on Trends in Topics Studied in Their Fields.

Learned and professional societies are national (indeed, international) information systems. Through their conventions and publications they both monitor the extent to which new developments in their fields are being presented to future practitioners and influence the dissemination of knowledge through educational institutions. They thus play a critical role in maintaining the quality of postsecondary education. Data on specific subject matter is more important to these critical organizations than department of instruction.

The Process of Recoding

I was the sole coder for the entire process, a strategy that increases reliability (while introducing intra-coder bias) at the cost of timeliness. The process worked roughly as follows. For each field in which substantial reconstruction was deemed necessary, a preliminary taxonomy was developed based on one or more of the unobtrusive traces of consensus. We then stripped out of the transcript data all those courses that were originally assigned to codes in the field at issue. For each instance of enrollment, we knew the name of the institution in which the course was taken, the major of the student (where indicated on the transcript and validated), and, where appropriate, the number of credits associated with the entry. I then recoded--if necessary--according to the tentative taxonomy, developing decision rules as I proceeded.

In the cases of 17 major fields, e.g. Communications, Biological Sciences, History, the tentative taxonomy, new codings, and decision rules were then presented to an external team of faculty from the field at issue. These faculty came to the Office of Research for a day to review this work, make suggestions for changing the taxonomy, develop new decision rules, and mark up a computer print out of all course titles in the field--with corrections according to the way they saw things. I then reviewed their recommendations, accepted (on average, and after discussion) 90% of them, and recoded the course files again.

Where questions remained, we checked a sample of college and community college catalogues using a microfiche collection from 1977-78. Approximately 20 major titles were subject to this supplementary review, including "Visual Communications," "Human Growth and Development," "Conflict Resolution," "Communication Law," "Modern English Grammar," "Group Dynamics," and "Personal and Social Adjustment."

For example, in the case of "Human Growth and Development," course titles had been coded under Biological Sciences, Psychology, Home Economics, Anthropology, and Education. The catalogue review provided decision rules that eliminated Anthropology and Education as options, created a new course category under Biological Sciences, and provided guidance for placing the remaining titles. As for "Modern English Grammar," institutional type turned out to be a determinant of classification: in most 4-year institutions, it was a linguistics course; in most 2-year institutions, a remedial English course.

"Visual Communications" was an interesting case because no clear-cut pattern emerged from the catalogue search: the title was found in roughly equal proportions under Advertising, Fine Arts, and Design. But the course was usually described as a general introduction to visual semiotics. It was thus given a new code as a general course in Arts, and with sufficient cases (over 100) to justify the category.

In addition to the primary process of focusing on the course as the unit of analysis, we also used the student and the student record. For other purposes, e.g. making sure that degrees, degree dates, dates of attendance, credits, etc. were accurate, I read through the complete records of over 10,000 students in the NLS/PETS, and under the NSF-sponsored portion of the project, an advisory panel examined the records of all students who earned Bachelor's degrees in the core science and engineering fields. In the process, one could easily spot miscodings of courses, since every record presents a distinct context and tone. For example, a course entitled, "Composition," might have been coded as "English Composition" or "Drawing." But the student record showed a major in Russian, no courses in Fine Arts, and the "Composition" course occurring in the third year of college. Such clues were sufficient for recoding the course under Russian language for that student. Over 4,000 titles were recoded by this method.

Once the original database had been corrected with these recoded course files, I ran some quality control checks, and, if necessary, made further changes. For example, we had some problems with the titles, "Mathematical Foundations"/"Foundations of Mathematics"/"Mathematics: Foundations." I had originally recoded these titles (and their variations) under "Pre-Collegiate Mathematics: General." The external review team pointed out that "Foundations," in Mathematics, was an advanced course, and a catalogue check confirmed that judgment. The titles were recoded accordingly. The quality control check, however, revealed that the vast majority of "Foundations" courses were taken in community colleges and/or by students who never earned any degrees. A set of decision rules was then developed to sort the "Foundations" titles with reference to precise wording, institutional type, student major, and degree level. The titles were stripped again, and recoded again.

I should point out that this process was not applied to every one of the 1,099 course categories in the original CIP system or even the 1,037 categories in our final version. One doesn't need external review to sort geography courses by world area or music history courses by genre. The empirical character of the database drove the categories in those and similar cases. In effect, the database disaggregated and sorted itself.

For the portion of the project sponsored by the National Science Foundation, the process was somewhat more elaborate in that the work of the teams was both advised and subsequently reviewed by a five-person advisory board and NSF personnel. The fields covered included Agricultural Sciences, Computer Science, Engineering, Engineering Technologies, Allied Health Sciences, Clinical Health Sciences, Biological Sciences, Physical Sciences, and Science Technologies. Work on the Mathematics section had been previously reviewed by the Mathematical Sciences Education Board, which sponsored a presentation of our analyses of mathematics course-taking in December of 1988.

After course category construction, external review, revision, and quality control checks, all instances of course-taking in the NLS/PETS database have now been recoded accordingly. The process took more than two years. It might have continued, but there was a point of diminishing returns to this effort. The second section of this volume, starting on page 14, presents the revised taxonomy.

I do not pretend that the results are 100% accurate. There are categories that are still troubling, but because we were not working with original transcript documents, rather with coded files, there was little we could do about them. Courses with generalized titles in Marketing are a good example. It is difficult to know which of these titles were introductory Marketing courses in a Business Administration program, and which were courses in marketing/merchandising operations. "Interior Design" titles were another case: we wound up crediting most of them under either Architecture or Vocational Home Economics, but I'm not wholly happy with the results.

While we're close to 100% accuracy with degrees and degree dates, I would not claim more than 85% of the courses. I still think we have too many categories, and that some of them are shaky.

What Did We Learn About College Transcripts?

There are a number of lessons to be gleaned from this process that bear upon the presentation of curricular information.

The most important of these is that transcripts are records left by individuals, and should be fair to those individuals. Too often, they are not. Students present transcripts to graduate schools and employers, and in many cases what a graduate dean or corporate personnel officer reads is unintelligible. There were six major types of unintelligibility in course titles on the NLS/PETS transcripts:

1) **Gibberish.** "UC/IDIS," "BANA," "FORST/NISNE MARK" and "SO JO X" are typical of such entries. There were over 1,100 cases of unclassifiable gibberish in the NLS/PETS. Try "KNOW A TOM-ID-CRIME-GOD" on for size!

2) **Word Games.** "ZOOSEMIOTICS," "ZOONOSIS," "DOTS TO DINOSAURS," and "TIME AFTER TIME" are among my favorites. The first of these is probably an animal behavior course, but it could also be graphic design. The others are impossible. Such titles, often the products of professorial marketing, challenge the reader to engage in interpretive games. Most readers of transcripts, such as graduate deans or prospective employers, don't have the time or patience for these games. The person who suffers as a result is the student.

3) **Fog/Snow.** The first title in #1 above might have also been presented as "University Course/Interdisciplinary Independent Study," a title that conveys very little information to the reader. Another variety of fog is the extremely generalized title, e.g. "IDEAS AND PROBLEMS," "APPLIED EXPERIENCES," "CONTENT," "SIMULATION," and (yes) "GOOD BOOKS." Orwell once observed that generalized diction falls like snow, blurring all distinctiveness. Presumably, students wish to present their efforts with distinct outlines. They deserve better than fog or snow.

4) **Inaccessible Codes.** "CHEMISTRY 126" is typical. Are graduate deans and prospective employers expected to carry around a full library of college catalogues to interpret such entries?

5) **Inaccessible Abbreviations.** Any faculty member who has worked registration lines or any academic administrator in a large institution knows what "SPED" or "HPER" or "OB" or "A&P" etc. mean. But to be fair to students, the presentation of courses on transcript should assume less experienced readers.

6) **Blanks.** A blank is just that. There are credits, a grade, but no course title. A prominent variation is the appearance of the department's name, e.g. "Mathematics." This variation is like the "fog" category, i.e. we have no idea what kind of math is at

issue. It could be anything from arithmetic to linear algebra.

How extensive is the unintelligibility resulting from such presentations? Excluding "inaccessible abbreviations" (a large category), I estimate one out of every eight course entries for the NLS/PETS. Half of these were in the "word game" genre, and were resolved at great expense of time. The rest wound up in the various bins marked "indeterminable," "missing," and "other." All represent information lost, information about what an individual did with his/her time in postsecondary education.

Second, while I would not advocate standardization of course titles, there is simply too much diversity out there. For example, there were nearly 50 distinctly different presentations for the introductory course in Communications. Since course numbering systems differ from one institution to another, we had to figure out from the title what was an introductory course in Communications. There is no reason anyone should have to develop decision rules and hire faculty teams to do that. Graduate deans won't do it and employers won't do it. It's the fairness issue once again; and students deserve better.

As for the number of course categories: in some fields, we're splitting too many hairs for efficient communication; in others, finer discrimination would help. No taxonomy of this kind is forever. New fields emerge; others dwindle in enrollments below meaningful levels. And we know that enrollments are often driven by labor market conditions, special circumstances, fad, and fashion. To repeat: I do not expect the final taxonomy for the 10-year postsecondary transcript sample of the High School and Beyond Sophomores (High School Class of 1982) to be the same.

How to Read the Taxonomy and Tables

The major fields of the taxonomy are presented in the order of the CIP system we inherited. Within each field, we first indicate the historical status of each course category:

OLD, i.e. in the 1985 version of the CIP, and used as described in that version;

MODified, i.e. in the 1985 version of the CIP, but modified in terms of subject matter coverage, course titles, etc.

NEW, i.e. a CIP code and category created for this analysis and in accordance with the empirical characteristics of the data base;

DELeted, i.e. in the 1985 version of the CIP but deemed misconstrued, inapplicable, and/or empirically unjustifiable according to a "threshold rule" (a minimum of 22 cases out of 485,000);

REStored, i.e. deleted from the CIP system between 1981 and 1985 by the National Center for Education Statistics, but reinstated here.

We then list the major courses titles/topics covered by the code/category, describe (where it is not obvious) the governing concepts in cases of modified or new codes, and add the decision rules (if any) used to determine precisely how a particular course entry on a transcript was coded.

Previews of Coming Attractions

At the end of this rather exhaustive list, we provide four appendices, three of which demonstrate the kind of data the taxonomy yields when applied to a substantial national collection of transcripts.

The first set of tables uses the student as the unit of analysis, and lists the percentage of students who completed (not merely enrolled in) undergraduate/pre-baccalaureate courses in each of the 1,037 course categories. These data are weighted for two categories of students: all who earned more than 10 undergraduate credits (whether or not they earned any degree) over the 12-year period covered by the NLS/PETS, and all who earned a Bachelor's degree during that time. Within each of these categories, the data are also provided for women and men.

The second appendix is a variation on the first: instead of 1,037 courses, the categories are aggregated to yield 103. Data are presented, by race and sex, for six groups of students who earned more than 10 undergraduate credits.

The third appendix takes all completed courses in each course category, and presents a distribution of those courses by the type of institution in which they were taken. This appendix enables readers to judge which types of institutions were the principle providers of specific knowledge to a generation.

The fourth appendix presents some basic data on the students in the NLS/PETS: who they are and what they did in postsecondary institutions over a 12-year period. These data are intended to tease: they are but a preview of the coming attractions in Archives of a Generation.

This collection of data should provide strong base-line information against which to judge future postsecondary transcript samples, hence to establish trends in the shifting face of knowledge and its dissemination. The data, in fact, color and shade the map.

The Taxonomy: Revised Version of the *Classification of Instructional Programs* as Applied to Postsecondary Courses

CIP Code

AGRIBUSINESS AND AGRICULTURAL PRODUCTION (01)

010101	MOD	Agricultural Business & Management: General; Agricultural Policy; Agric. & Government
010102	MOD	Agricultural Business/Finance/Marketing
010103	OLD	Agricultural Economics, Econ. of Ag. Production
010104	OLD	Farm & Ranch Management/Business
010199	MOD	Agricult. Business, Management & Marketing: Other
010201	OLD	Agricultural Mechanics, Farm Mechanics: General
010202	OLD	Agricultural Electrification, Farm Electrical Systems, etc.
010203	OLD	Agricultural Mechanics, Farm Shop
010204	MOD	Agricultural Power Machinery, Field Equipment: Operations and Management, Mechanized Feed
010205	OLD	Agricultural Structures, Equipment, Facilities
010206	OLD	Agricultural Soil/Water Practices, Hydrology, Irrigation, Tillage
		"Hydrology" also can appear under Agricultural Engineering (140301), as does "Soil Mechanics." Student major is the key to the assignment.
010299	DEL	Agricultural Mechanics: Other
		Did not meet threshold criterion after resorting.
010301	OLD	Agricultural Production: General
010302	OLD	Animal Production, Feed Lot Production, Pasture/Forage Production
010303	DEL	Aquaculture
		Did not meet threshold criterion.
010304	MOD	Crop/Cereal/Grain/Fruit/Pasture Production
010305	DEL	Game Farm Management
		Did not meet threshold criterion.

CIP Code		
010399	OLD	Agricultural Production: Other
010401	MOD	Agricultural Products/Processes/Evaluation
010402	DEL	Food Products (combined w/010401)
010499	DEL	Agric. Prod & Processes: Other (combined w/010401)
010501	DEL	Agricultural Services & Supplies: General Did not meet threshold criterion after resorting.
010502	DEL	Agricultural Services (combined w/010503)
010503	MOD	Agricultural Supplies/Services A title such as "Animal Feeds" was classified under 020204, not here. But "Animal Feed Supply" would be classified here. Titles referring to training of animals other than horses are placed here.
010504	DEL	Pet Grooming Did not meet threshold criterion.
010505	DEL	Animal Training (combined w/010503)
010506	DEL	Horseshoeing Did not meet threshold criterion.
010507	OLD	Horse Handling & Care, Horse Training, Paddock Management But "Equestrian" in the title places the course in 360111. So does "horsemanship."
010599	DEL	Agricultural Supplies & Services: Other Did not meet threshold criterion.
010601	OLD	Horticulture: General, Home Gardening, Organic Gardening, Plant Materials
010602	OLD	Aboriculture, Woody Plants, Shrubs
010603	OLD	Ornamental Horticult, House Plants, Indoor Plants, Floriculture

CIP Code		
010604	OLD	Greenhouse Operation
010605	MOD	Landscaping, Landscape Plants, Landscape Management, Planting Design
		These titles do not cover "landscape architecture" or "landscape design." see 040601.
010606	OLD	Nursery Operation
010607	MOD	Turf Mangmnt., Recreational Turf, Turfgrass, Lawns
010699	DEL	Horticulture: Other
		Did not meet threshold criterion after resorting.
010701	DEL	International Agriculture.
		Did not meet threshold criterion after resorting.
019999	OLD	Agribusiness/Agricultural Production: Other

AGRICULTURAL SCIENCES (02)

020101	OLD	Agricultural Sciences: Gen., Intro. to Agricult.
020201	OLD	Animal Sciences: General
		Covers general titles such as "Animal Physiology," "Animal Growth," "Physiol. of Domestic Animals." BUT titles such as "Vertebrate Physiology" or "Mammalian Physiology" are 260706.
020202	MOD	Animal Breeding/Reproduction/Genetics, Artificial Insemination, Sire Selection
020203	MOD	Animal Health, Farm/Range Animal Health/Diseases
		These were not veterinary medicine courses. Student major was the key to assignment. On the other hand, we found that "Large Animal Care" and "Small Animal Care" usually belonged in 182401. If the type of animal was indicated, e.g. poultry, the course was still placed here, and not under "Poultry" (020209).
020204	MOD	Animal Nutrition, Feeds, etc.
020206	OLD	Dairy

CIP Code		
020208	OLD	Livestock (Beef, Sheep, Swine)
020209	OLD	Poultry
020299	OLD	Animal Sciences: Other
020301	MOD	Food Sciences, Food Systems, Food Production Processes, Dairy/Meat/Poultry Production Processes, Food Packaging Systems
		See note at 190502. Student major is the key to assigning the simple course title, "Food Sciences." There is a difference, too, between "Production" and "Production Processing." When used in combination with "Dairy," "Sheep," or "Poultry," for example, the former is classified under 020206, 020208, or 020209.
020401	OLD	Plant Sciences: General
		These are not botany courses. See titles in the 2603 series for botany.
020402	MOD	Agronomy, Crop Science, Seed Biology
020403	MOD	Horticultural Science, Horticultural Botany, Horticultural Production, Plant Propagation
020408	MOD	Plant Protect/Pest Management, Herbicides, Insecticides/Insect Control, Weed Control
		As a title, "parasitology," standing alone, is to be found under Biological Sciences, not here.
020409	MOD	Range Management, Range Lands, Grasslands
020499	OLD	Plant Sciences: Other
020501	MOD	Soil Sciences, Soil Conservation, Soil Pollution, Soil Chemistry/Physics, Soil Systems, Soil Fertility, Fertilizers, Fertilizers and Plant Nutrition, Soil Resources
		We distinguished between the agricultural science "soil conservation" and the environmentally-oriented "land/water conservation" (030201). "Soil Engineering"/"Soil & Water Engineering" were classified under 140301.
029999	OLD	Agricultural Sciences: Other

RENEWABLE NATURAL RESOURCES (03)

CIP Code		
030101	OLD	Renewable Nat. Resources: Gen., Energy and Natural Resources, Land and Water Resources
030201	MOD	Land/Water Use, Management/Conserv, Soil Management, Water Resources, Water Rights
030202	MOD	Conservation: General, Conservation of Renewable Resources
030203	MOD	Resource Mgmnt & Regulation, Environmental Policy, Environmental Impact
030299	DEL	Conservation and Regulation: Other Unnecessary category.
030301	MOD	Fishing & Fisheries, Fish Culture, Fish Management, Fishery Biology
030401	MOD	Forestry Production: General, Farm Forestry, Forest Products, Forest Utilization, Pulpwood
030402	DEL	Forest Production Combined with 030401.
030403	DEL	Forest Products Utilization Did not meet threshold criterion.
030404	DEL	Forest Prods Processing Tech. (combined w/030401)
030405	MOD	Logging, Forest Harvesting
030499	DEL	Forestry Production and Processing: Other Did not meet threshold criterion.
030501	MOD	Forestry & Related Sci: General, Intro. to Forest Resources, Conservation of Forest Resources
030502	MOD	Forestry Science, Dendrology, Forest Hydrology, Forest Soils, Forest Biometrics
030504	DEL	Forest Engineering Did not meet threshold criterion after resorting.

CIP Code		
030506	OLD	Forest Management, Silviculture
030509	MOD	Wood Science, Forest Mensuration, Tree Growth and Development
030599	OLD	Forestry & Related Sciences: Other
030601	MOD	Wildlife Mgmt & Conservation
039999	OLD	Renewable Natural Resources: Other

ARCHITECTURE & ENVIRONMENTAL DESIGN (04)

040101	OLD	Architecture & Environmental Design: General, Man-Made Environment
040201	MOD	Architecture, Architectural Design, Archit. Design Studio, Archit. and Environment, Archit. and Human Behavior, Site Development, Archit. Practice, Housing Design, Archit. Methods, etc. Professional Evaluation/Registration This code covers most of the major course titles in the basic architectural curriculum. Others are found under Architectural Engineering (140401) Architectural Technologies (1501 series), Architectural Drafting (480102), and History of Architecture (500740).
040301	OLD	City, Community & Regional Planning
040401	OLD	Environmental Design, Man-Made Environment
040501	MOD	Architectural Interior Design, Interior Design Theory/Techniques, Commercial Space, Renovation These are not home economics courses. For interior/home decorating, see 200505. "Interior Design" titles are very difficult to classify.
040601	OLD	Landscape Architecture
040701	OLD	Urban Design, Cityscape
040801	DEL	Land Use Management Belonged in 03 series, not here. All legitimate titles moved to 030201.

CIP Code

049999 OLD Architecture & Environmental Design, Other

Surprisingly (for the 1970s), there were not enough instances of "Historic Preservation" titles to justify a separate category, so they are found here.

AREA & ETHNIC STUDIES (05)

In coding courses in these fields, one must be careful not to include foreign language courses with titles such as "Italian Culture and Civilization," Geography courses with titles such as "Iberia," or Anthropology courses with titles such as "The People and Culture of Meso-America." Student major and the pattern of other coursework should aid in the designation.

050101 OLD African Studies

"African Nationalism" was classified under Political Science as Comparative/3rd World Politics (451007), but "Pan-Africanism," a movement encompassing more than politics or the ideology of nationalism, was coded here.

050102 MOD American Studies, Amer. Civilization, American Character, American Utopias, etc.

But "American Story" or "The Growth of American Civilization" and similar titles referring to general national development were treated as history surveys, hence under 450811. Too, "American Popular Culture" was classified under a new interdisciplinary category (300404).

050103 OLD Asian Studies: General

050104 OLD East Asian Studies

050105 OLD East European Studies

050106 OLD European Studies: General

"European Civilization" or "Europe's Story" were treated under history (450801), not here. A more typical title for this category would be, "European Cooperation and Conflict."

050107 OLD Latin American Studies

050108 OLD Middle Eastern Studies

CIP Code		
050109	OLD	Pacific Area Studies
050110	OLD	Russian and Slavic Studies
050111	OLD	Scandinavian Studies
050112	OLD	South Asian Studies
050113	OLD	Southeast Asian Studies
050114	OLD	Western European Studies See comments under 050106. A typical title for this category would be, "The Future of the EEC."
050115	OLD	Canadian Studies
050199	OLD	Area Studies: Other
050201	MOD	Afro-American/Black Studies, Afro-Amer. Culture/ Folklore/Community Development/Dance/Social Thought/Family/Politics/Church/Heritage; Black Writers/Artists/Consciousness These are either generalized titles, or titles applying to specific subject matter in which "Black" is used, and not "Afro-American." For example, "Afro-American Experience" was coded here because it is generalized; "Afro-Americans in the 19th Century" was coded under "Afro-American History" (450817). "Black Society" is found here, not under "Sociology of Minority Groups" (451103).
050202	MOD	Native American Studies/Folklore/History But "Native American Languages" is 161001.
050203	OLD	Hispanic American Studies, Chicano Culture/Child/ History, Hispanic Culture, Barrios, Mexican-American Culture, Puerto Rican Studies "Hispanic Civilization" taught in Spanish Departments was coded under foreign languages; Puerto Rican history was coded under Latin American History (450832).
050204	OLD	Islamic Studies, the Nations of Islam These are not courses in Religion or Theology, rather in sociology or social history. Course

titles with specific reference to the Koran or Mohammed, etc. were coded under 380202.

050205 OLD Jewish Studies

These are not courses in Religion, Theology, or Bible. Course titles with specific reference to Talmud, Mishnah, Old Testament, Torah, etc. were coded under either the 38 series or the 39 series (if offered in Theological Seminaries).

050206 NEW Asian-American Studies

050299 OLD Ethnic Studies: Other

These were usually combination titles. "Ethnic Groups," however, does not belong here (see 451103).

059999 DEL Area and Ethnic Studies: Other

All titles here were moved into definitive categories in the 05 series.

BUSINESS & MANAGEMENT (06)

The recoding of business and management courses was informed by analyses of the CLEP examinations in business, accounting, and management fields, the statement of standards of the American Assembly of Collegiate Schools of Business, and a variety of publications on curriculum from AACSB. One objective of reconstruction was to clarify the distinctions among the six "core" fields of the business curriculum: management, accounting, finance, marketing, organizational behavior, and quantitative studies. In fact, the faculty who reviewed the first effort at reconstruction would have been happy with those six categories plus a code for general business and a code for "other."

In order to achieve this objective, we brought together the various topics in finance under a four digit series, 0603, combined two topics dealing with personnel, restored a code for business statistics (as distinct from economic statistics), redefined and/or expanded the coverage of codes for management science (0614) and organizational behavior (0615), collapsed topics under institutional management (0607), and developed three codes for accounting (0602).

060101 MOD General Business, Principles of Business, Business and Society, Social Environment of Business,

CIP Code		
		American Business System, Fundamentals, Foundations, Intro to Business, and other general Business Administration titles. These titles are distinguished from Introduction to Management/Principles of Management (060401). Business History was coded with economic history under 450804.
060102	NEW	Business Law, Legal Environment for Business, Law & Business, Business Transactions and the Law Particularly when taken in law schools, courses with titles such as "Corporation Law," "Commercial Transactions," etc. should be coded 220101.
060104	NEW	Business and Government, Regulation
060201	MOD	Introductory Accounting, Principles of Accounting Accounting Systems
060202	NEW	Tax Accounting, Taxes But "taxation" or "taxes and estates" or "federal income tax" as courses taken in law schools were coded 220101.
060203	NEW	Intermediate Accounting, Advanced Accounting, Cost Accounting, Auditing, Financial Communications, CPA Review, Managerial Accounting This category was designed to cover intermediate and advanced topics in accounting.
060301	MOD	Finance: Principles, Corporate, Capital Markets, Financial Management, Capital Management, Financial Decisionmaking, Financial Policy But specific references to "farm," "crop" or "agricultural" finance were coded 010102.
060302	NEW	Bank/Financial Institution Operations, Bank Management, Commercial Banking, Credit Operations These titles were distinguished from "Money and Banking" under Economics (450657) and from banking occupations titles in the 0702 series. Institutional type and major (where known) were used to distinguish among these titles. "Banking" courses titles in proprietary business

CIP Code		
		schools, AVTIs, and community colleges are usually not finance courses, hence belong in the 07 series.
060303	NEW	Securities and Investments, Stocks, Bonds, Commodities, Futures, Arbitrage, Securities Analysis/Valuation, Options, Investment Mgmt
		Formerly 061001.
060401	MOD	Management: General, Theory, Introduction to, Fundamentals of, Survey of, Business Org & Manage, Management Concepts/Games/Policy/Strategy
060402	DEL	Contract Management, Procurement, Purchasing
		Did not meet threshold criterion.
060403	MOD	Operations Management, Product Management, Logistics, Inventory Control, Production Management, Production Planning
		Some titles here had to be distinguished from those in Industrial Engineering (141701).
060499	DEL	Business Administration & Management: Other
		All titles here moved to definitive categories.
060501	OLD	Business Economics, Managerial Economics, Econ of Business, Analysis of Business Conditions
060601	MOD	Personnel Mgt., Human Resource Devel., Performance Appraisal and Promotion Systems, Compensation Administration
		But "principles of supervision" titles that refer to teachers or schools were coded in the 1304 series. Student major is the key to the coding of such titles.
060701	MOD	Institutional Management, Hotel Management, Restaurant Management, Hospitality Management
060702	DEL	Recreation Enterprises Management
		Most titles here belonged in the 0809 series (Hospitality and Recreation Marketing). The residuals were moved to 060701.

CIP Code		
060703	DEL	Resort Management See comments for 060702.
060704	DEL	Restaurant Management. Most titles here belonged in the 2004 series (Food Services). The residuals were moved to 060701.
060705	OLD	Transportation Management, Freight Mgmnt/Rates/ Tariffs, Physical Distribution Titles in "public transportation" were coded under Public Works, 440601; titles specifying aviation or airport management were coded 490104. "Traffic Management," was not placed here, rather under 060403. "Traffic Operations" is a Police Academy course, hence 430140.
060799	DEL	Institutional Management: Other Combined with 060701.
060801	OLD	Insurance & Risk Management, Principles of Insurance, Introduction to Insurance, Family Risk Management, Property/Casualty Titles specifying insurance marketing or sales were placed under 081001, not here.
060901	OLD	International Management, International Business, Multinational Corporations (MNCs) But "International Economics/Finance/Trade" titles were placed in 450652.
061001	DEL	Investments & Securities (renumbered 060303)
061101	OLD	Labor/Industrial Relations, Collective Bargaining, Contract Arbitration, Labor-Management Relations, Unions and Management
061201	OLD	Management Information Systems, Business Systems Design/Development
061301	RES	Business Statistics "Business & Economic Statistics" was coded here, but "Economic Statistics" (without the word, "Business," was coded 450641.

CIP Code		
		"Business Math" was either 270901 or 270902.
061302	MOD	Operations Research, Decision Science/Analysis Mathematical Decisionmaking The key word is "decision."
061303	MOD	Management Science, Business Research, Quantitative Methods/Studies/Techniques, Optimization
061399	DEL	Management Science: Other All titles moved to definitive categories.
061401	OLD	Marketing, Marketing Management, Introduction to Marketing, Distribution Channels, Marketing Theory, Channel Management, Marketing Strategy The most difficult decisions involved courses in "general marketing" or "introduction to marketing" that had been coded in the 0807 series. The decision rule was that if the courses were graduate (i.e. taken in the course of an awarded MBA) or the student's undergraduate major (if known) was 0603 (finance), 0604 (management), 0613 (operations research/quantitative studies), 0614 (marketing), or 0615 (organizational behavior etc.), then the course was classified under 0614. Institutional type was also used as a guide. The 0614 codes were generally applied to marketing courses in Bachelor's and Master's degree programs, not to programs at levels less than the Bachelor's.
061402	OLD	Marketing Research, Behavioral Science in Marketing, Consumer-Marketing Behavior
061499	DEL	Marketing Management & Research: Other All titles moved to definitive categories.
061501	MOD	Organizational Behavior/Theory/Processes, Organizational Development/Leadership The keyword, obviously, is "organization." "Leadership," without that qualifier, was usually placed in 350104, as a personal development course.
061601	DEL	Personnel Management (combined w/060601)

CIP Code		
061701	OLD	Real Estate, Land Finance/Leasing, Appraisal
		But "Real Estate Law" and "Real Property Law" were classified under Law (220101), using the "primacy of subject" criterion.
061801	OLD	Small Business Management/Policies/Operations
061901	DEL	Taxation (renumbered 060202)
062001	DEL	Trade and Industrial Supervision and Management
		Titles originally coded here belonged in categories ranging from international trade (450652) to production management (060403) to industrial engineering (141701) to personnel management (060601).
062101	DEL	Computer Installation Management
		Produced no instances of coursetaking. Even if it had, the titles would be more properly placed in either the Business Support (07) or Engineering Technologies (15) series.
063001	NEW	Internships in Business/Accounting, Co-Op Assignment: Management
064001	NEW	Personal Finance
		This is neither a personal service course nor a business home economics/family finance title. The former would be classified under "Coping Skills" (370102) and would be less than a three-credit course; the latter would contain the word, "family."
069999	MOD	Business Administration: Indeterminate/Missing

OFFICE SUPPORT OCCUPATIONS (07)

The keyword "operations" or "operator" placed a course in this series as opposed to 06 or 11. Student major and degree level (in combination) also played a role in assignment of titles here. For example, "Banking" for an office occupations major with a certificate but no degree is assigned here, not in Business Administration (06) or Economics (4508).

070101	OLD	Account & Bookkeeping Support: General

CIP Code		
070102	MOD	Computer Accounting, Accounting Machines, Clerical Accounting, Secretarial Accounting Titles here do not refer to the study of accounting principles, rather to accounting operations.
070103	OLD	Bookkeeping
070104	MOD	Machine Billing/Office Machines, Business Machines
070199	OLD	Accounting & Bookkeeping Support: Other
070201	MOD	Banking & Related Financial Prog. Support, Teller Operations, Credit Procedures
070203	DEL	Insurance Clerk
		Produced no instances of course taking.
070205	DEL	Teller
		Did not meet threshold criterion. Combined with 070201.
070299	DEL	Banking and Related Financial Programs: Other
		Combined with 070201.
070301	OLD	Business Data Processing: General
		Without the word, "Business," data processing courses were coded as 110301.
070302	OLD	Business Computer Operation, Terminal Operations
070303	OLD	Business Data Entry Equip Operation, Keypunch, Sorter
070304	DEL	Business Data Peripheral Equipment Operation
		Did not meet threshold criterion.
070305	OLD	Business Data Programming
		This is not a computer science applications course: Fortran or COBOL "for Business" courses were classified under 110603.

CIP Code		
070306	DEL	Business Systems Analysis The courses originally coded here more properly belonged in computer science (11 series).
070399	DEL	Business Data Processing and Related Programs: Other All titles resorted into definitive categories.
070401	OLD	Office Supervision/Management
070501	OLD	Personnel & Training Programs
070502	DEL	Training Assisting Did not meet threshold; all titles to 070501.
070503	DEL	Personnel Assisting Did not meet threshold; all titles to 070501.
070599	DEL	Personnel and Training: Other Unnecessary category.
070601	OLD	Secretarial Programs: General, Secretarial Science
070602	OLD	Court Reporting, Transcribing
070603	MOD	Executive Secretarial, Managerial Typing We split "managerial" from "production" typing titles, placing the latter in 070702.
070604	OLD	Legal Secretarial
070605	OLD	Medical Secretarial, Medical Dictation/Typing/ Machine Transcription Titles here are distinguished from those in Medical Office Management (170505) and Medical Records Administration (180703).
070606	OLD	Secretarial Practices/Procedures
070607	MOD	Stenography, Dictation, Gregg Method, Stenotype Pitman Method, Short Hand

CIP Code		
070699	OLD	Secretarial Programs: Other
070701	OLD	General Office Programs
070702	MOD	Typing, Clerk-Typist, Production Typing, Speed and Accuracy, Advanced Typing Most of the typing titles can be found here. But courses designed for personal (and not occupational) typing skills were placed in 320108 (see the rules at that entry).
070703	MOD	Business Correspondence
070704	OLD	Duplicating Machine Operation, PhotoDuplication
070705	DEL	General Office Clerk Produced no valid instances of course-taking.
070707	OLD	Receptionist
070708	DEL	Shipping, Receiving and Stock Clerk Did not meet threshold criterion.
070709	DEL	Traffic, Rate and Transportation Clerk Did not meet threshold criterion.
070799	OLD	General Office Programs: Other
070801	OLD	Word Processing
070901	NEW	Business Communications, Business English These titles are to be distinguished from "Business Writing" (231101), Business Speaking (231001), and Business Correspondence (070703).
079999	OLD	Business Support: Other

SPECIALIZED MARKETING & DISTRIBUTION (08)

Many of the codes and titles in this area describe courses that may be offered in high school, but not in postsecondary institutions. Obviously, there are important exceptions. If program certificates are offered in some of these areas in proprietary schools and/or AVTIs, they did not turn up in the

CIP Code

PETS sample. There is a residual confusion in the codes beginning with 0807 that was difficult to resolve without doing considerable violence to the existing CIP system. In the future, the definition of these categories should be confined to technical operations, so that the distinction between the marketing section of Business Administration (0614) and this section is more definitive.

080101	DEL	Apparel & Accessories Marketing: General All titles moved to 080102.
080102	MOD	Fashion/Apparel Marketing
080103	OLD	Fashion Modeling, Make-Up, Cosmetics These are not cosmetology courses (see 120403).
080104	DEL	Footwear Marketing Produced no instances of course-taking.
080105	DEL	Jewelry Marketing Produced no valid instances of course-taking.
080199	DEL	Apparel and Accessories Marketing: Other Unnecessary category. No instances.
080201	DEL	Business and Personal Services Marketing: Gen. Produced no valid instances of course-taking.
080202	MOD	Display, Visual Merchandizing, Exhibit Design
080203	DEL	Marketing of Business or Personal Services No distinction between this category and 080201. No instances of course-taking, anyway.
080299	DEL	Business and Personal Services Marketing: Other Unnecessary category. No instances.
080401	DEL	Financial Services Marketing No valid titles.

CIP Code		
080501 through 080599	DEL	Floristry, Farm and Garden Supplies Marketing Entire series (four codes) failed to produce one valid case of course-taking.
080601	MOD	Food Marketing: All
080602	DEL	Convenience Store Marketing No instances.
080603	DEL	Specialty Foods Marketing No instances.
080604	DEL	Supermarket Marketing. All cases moved to 080601.
080605	DEL	Wholesale Food Marketing. All cases moved to 080601.
080699	DEL	Food Marketing: Other Unnecessary category. No instances.
080701	DEL	Auctioneering Did not meet threshold. Moved to 080799.
080702	OLD	Industrial Sales
080703	OLD	International Marketing
080704	OLD	Purchasing, Buying
080705	OLD	Retailing, Retail Operations
080706	MOD	Sales, Salesmanship, Sales Strategies
080707	DEL	Wholesaling Did not meet threshold criterion.
080708	OLD	Marketing/Distribution: General/Intro/Principles of, Promotional Marketing Courses with the title, "marketing," coded here had to be distinguished from those coded in the

CIP Code

0614 series. The principal determinant was the student's major, when known. See comments on 061401. If the student's major was in the 08 series or 061401 then the course is here. Institutional type was also used as a guideline, e.g. "General Marketing" courses in AVTIs and proprietary business schools were coded here.

080799 OLD General Marketing: Other

080801 through 080899 DEL Home and Office Products Marketing

No code in this eight-code series met the threshold criterion. Six of the eight codes failed to yield any instances of course-taking.

080901 OLD Hospitality & Recreation Marketing

These titles were distinguished from "hotel management" titles that were consolidated in 060701. The concepts that govern this category are promotion, marketing, and sales, not operations and finance.

080902 DEL Marketing of Hotel/Motel Services

Did not meet threshold; moved to 080901.

080903 DEL Marketing of Recreational Services

Did not meet threshold; moved to 080901.

080904 DEL Recreational Products Marketing

Did not meet threshold; moved to 080901.

080905 DEL Waiter, Waitress and Related Services

Does not belong under "Marketing/Distribution." Moved to 12 series (Consumer, Personal, and Miscellaneous Services) under 129999. There were too few cases to place it anywhere else.

080999 DEL Hospitality and Recreation Marketing: Other

No cases.

081001 OLD Insurance Marketing

081101 OLD Transportation & Travel Marketing

CIP Code		
081102	DEL	Transportation Marketing No valid cases.
081104	OLD	Tourism
081105	MOD	Travel Services Marketing, Travel Planning, Ticketing
081106	DEL	Warehouse Services Marketing No cases.
081199	DEL	Transportation and Travel Marketing: Other No cases.
081201	DEL	Vehicle and Petroleum Marketing: General No cases.
081203	OLD	Auto Vehicles/Accessories Marketing
081204	DEL	Petroleum Wholesaling. No cases.
081205	DEL	Recreational Vehicles/Accessories Marketing Did not meet threshold; moved to 081203.
081206	DEL	Service Station Retailing Did not meet threshold; moved to 089999.
081207	DEL	Vehicle Rental and Leasing No cases.
081299	DEL	Vehicles and Petroleum Marketing: Other Unnecessary category. No cases.
089999	OLD	Marketing/Distribution: Other

COMMUNICATIONS (09)

As a field in U.S. higher education, Communications is a conglomerate. Its sources lie in a variety of disciplines, and the shape of its curriculum in any one institution reflects local history more than national consensus. In some cases, Communications emerged from the Speech and Theatre/Drama subdivisions of English departments to embrace film and television. In others, it grew from the work of political scientists and sociologists who studied public opinion, propaganda, and mass persuasion, and who transformed the field into the broader area of semiotics. In still other cases, local departments were enlarged programs of journalism. The coding of courses in this field focused on three borders: those with English (23 series), Communications Technologies (10 series), and Film Studies (5006 series). The decision rules we established strengthened those borders, but given the nature of the field did not resolve all ambiguities.

We inherited a coding that had assigned virtually every title with the word "communication" to the 09 series, including "Animal Communication" (should be 260707, "Animal Behavior," a new code); "Manual Communication" (should be 170410, "Sign Language"); "Visual Communication" (a generalized title under Fine Arts, for which a new category, 500102, was created) etc. We combined the hundreds of titles in "Business Communications" with "Business English" titles in a new category (070901) under Office Support/ Secretarial topics. Indeed, the vast majority of those courses were taken by students in community colleges and proprietary schools who were "majoring" in Office Support fields. On the other hand, "Managerial Communication" was assigned to 061501 (Organizational Behavior, etc.).

090101 MOD Communications: General, Principles, Oral Communication, Speech Communication, Human Communication, Fundamentals/Foundations of Communication, Communication in/and Society

We reserved the "speech" courses in English (231001, 231002, and 232003) for titles that were specific to either advanced (Debate, Public Speaking, Oral Interpretation, Voice, etc.) or remedial topics (the phrase "basic oral communication" as opposed to "basic principles of communication" placed the course in the remedial series in English, 2320. Likewise, general titles such as "Communication Skills" were assigned to the new 2320 series. The courses assigned here were the residual titles, often very generalized.

090201 MOD Advertising, Copywriting, Commercials, Media Planning, Marketing Communications

These titles were distinguished from those in

CIP Code

marketing (0614 series, 0807 series) or distribution (other 08 series), as well as skills and technical courses in Commercial Art/Graphic Communications (4802 series) and Graphics (5004 series).

090301 MOD Communications Research/Theory

Courses in "Interaction Process Analysis" went here and not in Applied Psychology (350101) or Interpersonal Communication (091001). Courses in semiotics and semiotic theory were placed here and not in Philosophy.

090401 MOD Journalism, Reporting, Editing, Photojournalism Feature Writing, News Gathering, Editorial Writing

The range of titles here (in combination with qualifiers such as "magazine" or "newspaper") covers most of the undergraduate journalism curriculum. The graduate curriculum may add other titles, but there were too few cases to know for sure.

090501 OLD Public Relations

090601 OLD Radio/TV News Broadcasting/Writing/Gathering, Directing, Producing, Broadcast Journalism

The titles here referred specifically to news.

090701 OLD Radio/TV: General, Writing, Directing, Programming; Writing for Non-Print Media

TV production, when specified, was classified in the communications technology series (10), as were titles referring to FCC license preparation. "Announcing" courses were considered performance courses, and placed under Public Speaking (231001)

090801 DEL Telecommunications

Did not meet threshold criterion. Titles originally assigned here more properly belonged to either Engineering or Communications Tech. For the category to be viable, topics should be restricted to common carriers (telephone, satellite), data communication, etc.

CIP Code		
090901	NEW	Mass Communications, Mass Media, Communication Systems, History of Mass Communication Basic survey courses in mass media. Titles covering a range of specified media, e.g. "Radio/TV/Film" were coded here. But "Film as Communication," for example, was placed in 500601.
090902	NEW	Public Opinion & Propaganda If political elections were specified in the title, the course was classified under "Political Behavior" (451009).
090903	NEW	Communication Law, Ethics, Regulation, Freedom of Press and Speech, Press and Society If these courses were taken by students enrolled in Law School, they were classified under 220199, and not here.
091001	NEW	Interpersonal Communication, Small Group Communication, Intercultural Communication, Personal Persuasion, Non-Verbal Communication While most communication is "interpersonal," we distinguished between these titles and those under 090101, by their specificity. We also distinguished between the titles here and those in the 0909 series by the criterion of reference to public contexts or mass media. "Persuasion" is here, but "Mass Persuasion" is in 090902. "Persuasive Speaking," as opposed to "Persuasion," was placed under 231001 (Public Speaking, Debate).
091002	NEW	Interviewing Courses in "interviewing" are given in many departments, e.g. psychology, social work, journalism. Unless the title specified a distinct disciplinary context, though, it was placed here.
092001	NEW	Internships in Communication, Journalism
099999	OLD	Communications: Other, Missing

CIP Code

COMMUNICATIONS TECHNOLOGIES (10)

Communications Technologies cover courses in discrete production aspects of media. They are not to be confused with Communications Engineering (141001), or any of the categories describing writing or directing for the media (see both the 09 and 5006 series).

100101	OLD	Educational Media Technology, Audio-Visual Communication, AV Equipment/Production/Materials
		If the title referred to "instruction" through educational media, it was coded as 130501.
100102	OLD	Motion Picture Technology
100103	OLD	Photographic Technology, Camera Theory, Photo Sensitometry
		A title such as "The Physics of Light/Photog" was coded here, not under Physics.
100104	MOD	Radio/TV Production Technology, Broadcasting Technology, FCC License, Broadcast Operations, Cable TV Operations, Radio Engineering
100105	MOD	Sound Recording Technology, Sound Studio, Recording Systems
100106	DEL	Video Technology
		The few titles originally classified here were combined with 500606, "Video."
100199	OLD	Communications Technologies.: Other

COMPUTER SCIENCE (11)

Courses with the word, "computer," in their titles are taught in a variety of departments and stress a wide range of competencies, from design to simple use. The principle used to guide the recoding of the entire NLS/PETS sample--that the topic of instruction takes precedence over the department of instruction--proved more difficult to apply in Computer Science and computer-related courses than elsewhere. But the identity of the institution in which the course was taught proved to be very helpful in refining the categories and reassigning courses. The 1985 CIP presented only seven codes for Computer Science courses under the "11" series, and we have added 12. The new

CIP Code

scheme is designed to identify more advanced courses in computer science (what the Conference Board of the Mathematical Sciences refers to as Level II and Level III Computer Science courses), to distinguish among the different types of programming and applications courses, and to sort out "computer literacy" and general use courses from the pack.

110101	OLD	Intro. to Computer Science, Computer Concepts, Computer Principles, Intro. to Digital Computers, Computer Science (with no other qualifiers)
110102	NEW	Computers and Society, Computers for Non-Majors, Computer Literacy, Exploring Computers, etc. These courses are not really Computer Science, rather personal service or basic skills courses.
110201	MOD	Computer Programming, Programming in . . . (any major computer language, e.g. BASIC, PASCAL, COBOL, FORTRAN), Introduction to . . .(any major computer language) The key preposition is "in." If the title read, e.g., "FORTRAN Programming for Business," it was classified elsewhere (110603).
110202	NEW	Algorithms, Algorithmic Development/Methods
110203	NEW	Machine Language, Assembler Language
110204	NEW	Compiler Language, Grammar, Program Language Theory, Language Processing
110301	MOD	Data Processing: General, Introduction; EDP; RPG (Report Program Generators), etc.
110302	NEW	Data Structures, Information Structures
110401	OLD	Information Science, Information Systems, Information Networks, Data Base Concepts, Data Base Management, File Organization
110501	MOD	Systems Analysis, Systems Development, Computer Communication/Networks/Sub-Systems If the word "design" appeared with any of the above (or analogous) titles, the course was placed in Computer Engineering (140901), provided it was taught in a 4-year college.

CIP Code		
110502	NEW	Systems Software, Systems Programming, OS, Software Methods and Design Most of the courses in this category had been classified in 110501, but it is obvious that their emphasis on software engineering is qualitatively different.
110601	NEW	Computer Applications: General, Unspecified
110602	NEW	Computer Applications: Science & Engineering, Medical Information Science, Basic Scientific Programming, Engineering Computing Methods
110603	NEW	Computer Applications: Business/Management, COBOL and Business Applications, Computers in/for Business Courses with titles such as "Business Computer Programming" or "Computer Programming: Business Orientation" were assigned to 070305, particularly if offered in 2-year colleges. "Management Information Systems" has its own code (061201), and the various categories in Management Science (the 0613 series) are detailed elsewhere.
110604	NEW	Computer Applications: Other Fields. The "other fields" ranged from architecture to linguistics to general social science.
110701	NEW	"Advanced Topics," e.g. Cybernetics, Graphics, Simulation, Modelling, Plotting, AI, Automata This category covers some of the "Level III" subjects in the undergraduate surveys of the Mathematics Sciences Education Board.
110801	NEW	Numerical Methods, Numerical Analysis, Linear Programming, Mathematical Programming This category was designed to capture second-level computer mathematics courses normally taught outside Mathematics departments. Courses with titles such as "Computer Mathematics" or "Data Processing Math" were grouped with Finite and Discrete Math as mathematics courses (270202).

CIP Code		
110901	NEW	Other Determinable Topics. The dominant titles here, however generalized, were Computer Lab, Computer Methods, Computer Problems, Computer Techniques, etc.
119999	OLD	Computer Science: Unknown or Indeterminable.

CONSUMER & PERSONAL SERVICES (12)

The original version of the CIP system attempted to cover virtually every type of program offered in every sector of U.S. education. But the only sector that consistently uses the taxonomy in its national reporting is higher education; and there are dozens of CIP categories that yield no data on either courses or programs in colleges, community colleges, or proprietary vocational schools. Only 4 categories of the original 14 in this section were viable in terms of the NLS/PETS transcript sample.

120101	DEL	Drycleaning & Laundering Services No cases.
120202	DEL	Bartending No cases.
120203	DEL	Card Dealing No cases.
120204	DEL	Umpiring These titles were combined with "refereeing," "sports officiating," etc. and placed in 310501, a new code under the "Recreation" series.
120299	DEL	Entertainment Services: Other Did not meet threshold criterion.
120301	OLD	Funeral Services, Embalming
120401	DEL	Personal Services: General No valid cases.
120402	DEL	Barbering, Hairstyling Combined with 120403.

CIP Code		
120403	MOD	Cosmetology, Barbering, Hairstyling, Color Treatment, Physiology of Hair, etc.
120404	DEL	Electrolysis No cases.
120405	DEL	Massage No cases.
120406	DEL	Make-Up Artistry The limited number of titles here were moved to 500405 (Theatre Design, Stagecraft, Costuming).
120499	DEL	Personal Services: Other Did not meet threshold criterion.
129999	OLD	Consumer/Personal Services: Other

EDUCATION (13)

Not all courses with the word, "Education," in their titles belong in the 13 series any more than all courses with the word, "Communication," in their titles belonged in the 09 series. For example, "Drug Abuse Education" is often a student personnel service course for college students, and was classified accordingly in the 34 series, particularly when the number of credits awarded was less than three and the student's major (if known) was other than Education. In many of these cases, we adopted the rule that "if the specialty is not a teacher certification category in at least a few states, the title probably does not refer to an education course."

In all the subject-matter education titles/codes (1313 series), subject matter took precedence over level of education. Thus, "Elementary School Science" was classified as Science Education (131316), not Elementary Education. Likewise, a particular subject taught "for elementary/secondary school teachers" was classified under education, not under the subject, e.g. "Chemistry for Teachers" is Science Education (131316), not Chemistry; "Geography for Elementary Teachers" is Social Science Education (131318), not Geography, etc.

One decision of note that cut across a number of existing categories, particularly in Special Education (the 1310 seri "Physical Education for Special Populations/Exceptional

CIP Code

Child/Mentally Retarded/Handicapped" titles were placed in a new category for "Adaptive Physical Education," 171003.

130101 OLD Education: General, Education and Society, Problems in Education, Foundations of Education Theory and Practice of Education, Issues in, Public School System

But not "Social/Historical/Philosophical" Foundations. Those titles were placed under 130901.

130201 MOD Bilingual/Crosscultural Education, Bilingual Child, Bilingualism, Multicultural Education

130202 DEL Bilingual Education Assisting

Did not meet threshold criterion.

130299 DEL Bilingual/Crosscultural Education: Other

Did not meet threshold criterion.

130301 MOD Curriculum, Curric. Theory, Applied Theory

130302 NEW Instruction, Methods & Materials.: General, Creative Activities, Classroom Management, Classroom Discipline, Teaching Behavior, Listening/Learning Styles, Teaching Strategies, Teaching Process, Group Process in Education

This is the basic classroom methods category. It was used when neither the level nor subject matter was specified. Thus, "Methods in Math Education" was classified under 131311, not here; likewise "Classroom Management in the Secondary School" was placed under 131205, but the general title, "Classroom Management" would fall here.

130401 MOD Educational Administration: General, School Administration, Education & Law, Principalship, School Buildings and Grounds, School Finance

130402 DEL Administration of Special Education

Did not meet threshold criterion.

CIP Code		
130403	DEL	Adult and Continuing Education Administration All titles here belonged in 131201.
130404	OLD	Educational Supervision
130405	DEL	Elementary and Secondary Education Administration All valid titles moved to 130401.
130406	MOD	Higher Education Administration/Research, Community College Administration With the exception of "College Student Personnel Services" (a new category under Guidance, 131102) all higher education titles were consolidated in this category.
130407	DEL	Community College Administration Did not meet threshold. Titles moved to 130406.
130499	DEL	Educational Administration: Other Unnecessary category.
130501	OLD	Educational Media, Instructional Media/Technol, Media for Elementary/Secondary Schools, Preparation/Use of Media/A-V Materials The category does not cover "Operation of A-V Equipment," or the keyword, "Audio-Visual" without a specific reference to teachers or level of schooling. These other titles were placed in 100101.
130601	MOD	Evaluation and Research: General, Research Methods, Evaluation Techniques, Program Evaluation Some of these titles referred specifically to "education." Others did not. In the latter case, we gave the original coders the benefit of the doubt, and let their assignments stand.
130603	MOD	Educational Statistics
130604	OLD	Educational Testing, Measurement, Assessment, Individual Assessment

CIP Code		
130605	DEL	Elementary and Secondary Research All valid titles moved to 130601.
130606	DEL	Higher Education Research All valid titles moved to 130406.
130699	OLD	Educational Research: Other
130701	DEL	International Education, Comparative Education Did not meet threshold criterion.
130801	MOD	Educational Psychology, Psychology of Learning, Human/Child Growth and Learning, Human Development and Learning, Learning Process, Learning in Schools We split "school psychology" from "educational psychology" (they are different), and educational psychology from "developmental psychology" (420701) using the keyword, "learning." For "Child Development," see comments under 200102. Courses on developmental theorists, e.g. Piaget, were placed in 420701 unless there was an explicit reference to schools/schooling.
130802	NEW	School Psychology
130901	MOD	Social/Historical/Philosophical Foundations [of Education], History and Philosophy of Education
131001	OLD	Special Education: General, Exceptional Child
131002	OLD	Special Education: Culturally Disadvantaged
131003	OLD	Special Education: Deaf/Hearing Impaired These titles are distinct from those in the 1801 series in that they specifically refer to "Special Ed," "SPED," or any similar abbreviation.
131004	OLD	Special Ed.: Gifted & Talented, Creative Child
131005	OLD	Special Ed.: Emotionally Handicapped/Disturbed, Education for Autistic Children

CIP Code		
131006	OLD	Special Education: Mentally Handicapped
131007	OLD	Special Education: Multiple Handicapped This category is also used for any Special Education title in which more than one handicap is mentioned, e.g. "Education of EMR."
131008	OLD	Special Education: Physically Handicapped
131010	OLD	Special Education: Remedial Education This category is like 131002, i.e. the words, "Special Ed," are the key. "Remedial Reading" on the other hand, can be either a course in Reading Education (131315) or a basic skills course for underprepared college students (232002). Context determines the assignment.
131011	MOD	Special Ed.: Learning Disabilities, Reading Disabilities The keywords are either "disability" applied to a cognitive process or "LD." If the title were "Corrective Reading," for example, it belonged in 131315, "Reading Education," not here.
131012	OLD	Special Education: Speech Correction This code was not for Speech Pathology courses (1801 series). The title should refer either to "Special Ed" or "School" or "Classroom" to be coded here.
131099	OLD	Special Education: Other
131101	OLD	Student Counseling, Guidance, Educational and Vocational Guidance The word, "counseling," also appears in course titles under "Counseling Psychology" (420601), Social Work (440701), and various categories of the 1704 series (Human Services). Student major is a helpful guide to placing the title. The titles under 131101 should refer to school settings. "Vocational Guidance" is sometimes a personal service course in the 32 series, e.g. 320105 or 320107. If a 1-credit course, we placed it there.

CIP Code		
131102	NEW	Higher Education Student Personnel Services
131201	OLD	TE: Adult and Continuing Ed, Teaching Adults, Community Education We did not place the "agricultural education" extension course titles here, rather under 131301. "Parent Education," "Parental Involvement" and similar titles were coded as 200107.
131202	OLD	TE: Elementary Education, Activities for Elementary School, Books/Materials for Elementary School, Elementary School Program, Playground Activities Any subject matter "for Elem Teachers/School" title was placed under the 1313 (Subject Matter Education) series. There was one type of exception: titles referring to more than one subject, e.g. "Sci & Soc Sci for Elem." Those titles were placed here. Titles referring to curriculum, materials, classroom management, activities, etc. without the keyword, "elementary," were placed in either 130301 or 130302.
131203	OLD	TE: Junior High/Middle School/Intermediate School
131204	OLD	TE: Early Childhood/Pre-Elementary, Pre-School, EC/ECE, Young Child, Montessori Methods, Kindergarten These designations supersede all other concepts attached to the title, e.g. "Counseling the Young Child" was assigned here, and not to Counseling (131101). One exception involved titles referring to testing and measurement; the other, student teaching/practicum/field experience (131501). "Child Development" course titles, on the other hand, were placed in 200102.
131205	OLD	TE: Secondary Education These are methods, theory, materials, etc. courses with a specific level-of-education reference. Without the keyword, "secondary," these titles would be placed under either

CIP Code		
		130301 or 130302 (the general "Curriculum and Instruction") categories.
131299	OLD	TE: General Programs: Other, Indeterminable.
131301	OLD	TE: Agricultural Education, Agricultural Extension Education, Cooperative Extension
131302	OLD	TE: Art Education, School Arts & Crafts
131303	OLD	TE: Business/Marketing/Distributive Education, Teaching Typing, Teaching Shorthand
131304	OLD	TE: Driver and Safety Education "Water Safety Instruction," however, was not coded here, rather in 310401. And most "Safety and First Aid" titles, particularly those carrying less than 3 credits, were treated as Health Activities courses, and coded 340105.
131305	OLD	TE: English Education, Teaching Literature, Teaching Writing/Rhetoric/Composition "Children's Literature" titles do not belong here, rather with Language Arts (131323).
131306	OLD	TE: Foreign Language Education
131307	OLD	TE: Health/Nutrition Education, School Health Program, Foundations in Health & Phys Ed., HPE Activities in Elem/Sec School, Sex Education If "Health" preceded "PE" in the HPE titles, they were placed here; if the converse, then in 131314. If "school" was not mentioned in conjunction with "Health Activities," the title was placed in the 34 series.
131308	OLD	TE: Home Economics Education
131309	MOD	TE: Industrial Arts Education, Teaching IA, School Shop
131311	OLD	TE: Mathematics Education, Concepts of Math for Elementary Teachers, Math in the Elemtary/Middle/ Secondary School The key phrase for Math Education courses was "for teachers." However, course titles

CIP Code

such as "Number Structures," "Number Systems," and "Math Structures," without any other qualification were classified 271001, i.e. as mathematics courses.

131312 MOD TE: Music Education, Music Pedagogy, Music in Schools, Music Fundamentals for Elementary Teachers, Keyboard Methods & Materials, etc.

"Music Pedagogy" is not necessarily a course designed for teaching in school settings. Nonetheless, we decided to include it here.

131313 DEL Nutrition Education

Merged with 131307.

131314 MOD TE: School Physical Education, Coaching, HPE in Schools, Motor Development, Basketball/Soccer/Gymnastics/etc. for Elem/JHS/Sec Schools, Organization and Administration of HPE (but not HPER--see 171001), Teaching X (any specific sport or physical activity)

This code applies to school-based physical education curricula, i.e. courses to prepare physical education teachers for schools. We distinguished it from physical education for work in non-school settings, and from physical education courses that did not specifically reference a school context. These others are found either in the new HPER series (1710) or under the 31 series (Recreation). Neither "adaptive" nor "adapted" physical education titles were coded here. The former refers to training individuals to teach physical ed to special populations (hence is under Allied Health); the latter involves physical education for college students who themselves require special arrangements, hence is under the 34 series. All titles with the keyword, "coaching," were coded here, even though training in coaching can be applied in nonschool settings.

131315 MOD TE: Reading Education, Diagnosis/Prescription in Reading, Corrective Reading, Basic Reading Instruction, Reading in Content Areas

If "reading" was accompanied by the phrase, "and language arts," the title was placed in 131323.

CIP Code		
131316	OLD	TE: Science Education, X (any specific science) for Teachers, Teaching X (any specific science) in Elementary/Junior High/Secondary school.
131317	DEL	TE: Social Science Education Combined with 131318. No guidelines could be developed to distinguish course titles in two categories.
131318	OLD	TE: Social Studies Education, History/Geography etc. for Elementary/Secondary Teachers, Teaching X (any specific social science) in Elem/JHS/Sec School, Social Studies in Elem School/Grades
131320	MOD	TE: Vocational Education, Technical Education, Philosophy of Voc Ed, Organization of Voc Ed
131321	DEL	Computer Education Did not meet threshold criterion.
131322	NEW	TE: Drama Education, Dance Education, Creative Movement for Children, Dance Activities Elem, Play Production Second. School, Teaching Theatre
131323	NEW	TE: Lang. Arts, Children's Lit, Literature for Adolescents, Reading and Language Arts, Storytelling, Teaching Handwriting/Spelling, Teaching Language Skills Titles with the word "Reading" were placed here only when found in combination with "Language Arts," "Children's Lit," etc. Some states have different certifications for reading teachers and language arts teachers, and our revision of the codes acknowledges that distinction.
131399	OLD	TE: Other, Indeterminable
131401	OLD	TESOL, English for Non-English Child, Theory/ Practice of ESL
131501	MOD	Student Teaching, Practicum, Directed Teaching, Field Placement, Observation & Participation, Supervised Teaching, Field Experience, Field Workshop, Internship, Supervised Teaching With the exception of student/directed teaching practicum, field experiences, etc. in content

areas, e.g. "Student Teach: Art," all the above titles were placed here, and not under their respective level codes. "Student Teach: Elementary," for example, was placed here, not under Elementary Education.

139999 MOD Education: Indeterminable, Missing

The residual titles in Education were all cases of missing or indeterminable. The 13 series possesses enough "99" codes, e.g. 131299, 131399, to account for "Other."

ENGINEERING AND ENGINEERING TECHNOLOGIES (14 and 15)

The reassignment of course titles in Engineering (the "14" series) and Engineering Technologies (the "15" series) departed in many ways from analogous tasks in other fields. Perhaps no other areas in the CIP system illustrate better what the CIP was created to do: describe degree/credential programs, not courses. This is in the very nature of Engineering and Engineering Technologies. Each sub-field is a composite, an interdiscipline that draws on many discrete courses from other areas of the college curriculum. And more than any other sections of the 1985 version of the CIP, the descriptions for each category in the 14 and 15 series truly delineate programs. Nonetheless, the CIP had been used to code courses, and, given that inheritance, our job was to make sure that the representation in Engineering and Engineering Technologies fields was as accurate as possible. The 14 and 15 series include many cases of parallel fields, e.g. Civil Engineering (140801) and Civil Technologies (1502), Mechanical Engineering (141901) and Mechanical Design Technology (150805), etc. In these cases, decision rules were established for the assignment of courses based on the institution of instruction.

The two series also include cases of courses with the same title, e.g. Fluid Mechanics, that could be taught in a variety of programs, e.g. (in this case) Aeronautical Engineering, Civil Engineering, Mechanical Engineering, or Engineering Mechanics. In these cases, the external faculty rating team decided to give the original coders the benefit of the doubt, and instructed us to leave those courses where they were originally coded unless there were other reasons (e.g. the institution did not offer Engineering degrees) for changing the assignment.

CIP Code		
140101	MOD	Introduction to Engineering, Engineering Design, Engineering Communication, Professional Orientation, Engineering Concepts, etc. We decided to include these titles under the "Engineering: General" code (as opposed to the "Other/Indeterminable" code, 149999).
140201	MOD	Aeronautical Engineering, Aerospace Engineering, Astronautical Engin, Aerospace System Design, Aeroelasticity, Aerodynamics If taught in universities with engineering programs, titles concerning Powerplant, Flight Mechanics, and Airframe should be placed here. Otherwise, they were assigned to Aeronautical Technology (150801) or reinstated Aircraft Mechanics (470602) codes, depending on the phrasing of the course title and the institution of instruction.
140301	OLD	Agricultural Engineering, Farm Power Engineering If "Soil Mechanics" was originally coded here, it stayed, even though its more customary assignment, as a title, would be Civil Engineering.
140401	OLD	Architectural Engineering, Archit. Structures
140501	OLD	Bioengineering, Biomedical Engineering
140601	DEL	Ceramic Engineering No cases.
140701	OLD	Chemical Engineering, Biochemical Engin., Electrochemical Engin., Fluid Flow Applications "Heat Transfer" and other engineering thermodynamics course titles that were originally placed here were left as coded. Most other instances of those titles were moved to Mechanical Engineering (141901).
140801	OLD	Civil Engineering, Sanitary Engineering, Highway Engineering, Hydraulic Engineering Structural Analysis

CIP Code		
140901	MOD	Computer Engineering, Computer Architecture, Systems Design, Digital Logic/Logic Design, Digital Computer Design/Theory, Digital Circuits, Log Pulse/Switch/Sequential Circuits Any title with the word "digital" placed the course here, as opposed to in 141001.
141001	OLD	Electrical Engineering, Electronics Engineering, Communications Engineering, Basic Electrical Circuits, Circuit Analysis/Design/Measurement/Theory, Solid State Engineering, Analog Signals Courses with "AC" or "DC" or "Electricity" in the title were usually assigned to Electrical Technology (150302). Course titles such as "Communication Theory" or "Pulse Measurement" evidently confused coders (they look like they belong somewhere else). Student major is key.
141002	DEL	Microelectronic Engineering There were very few instances of microelectronics titles coded here, and most of these belonged under Electronic Technology (150303).
141101	MOD	Engineering Mechanics, Statics, Dynamics, Kinetics, Applied Mechanics, Mechanics/Strength of Materials The faculty rating team decided to move all courses with the above titles into this category, and without regard to institutional type.
141201	MOD	Engineering Physics, Technical Physics, Applied Physics Again, in this category, institutional type was not at issue in the decision rules.
141301	OLD	Engineering Science
141401	MOD	Environmental Engineering, Environmental Health Engineering, Sanitary Engineering
141501	MOD	Geological Engineering, Geophysical Engineering, Geomechanics This category combines the old 141501 and 141601.

CIP Code		
141601	DEL	Geophysical Engineering
		The number of valid instances of course titles here did not meet the threshold rule.
141701	MOD	Industrial Engineering, Production Design, Human Factor Engineering, Time-and-Motion Study, Plant Layout, Facilities Design, Work Measurement
		For purposes of analyzing courses, we modified the coverage of this code so as to place all the Engineering Management and Engineering Economics titles in a new, separate bin (141702).
141702	NEW	Engineering Management, Engineering Economics, Cost Engineering, Manufacturing Management
141801	MOD	Materials Engineering, Materials Science, Properties and Structure of Materials, Composite Materials
141901	MOD	Mechanical Engineering, Heat Transfer, Engineering Thermodynamics, Automotive Engineering, Energy Conversion, Vibrations
142001	OLD	Metallurgical Engineering
142101	OLD	Mining and Mineral Engineering
142201	OLD	Naval Architecture, Marine Engineering, Ship Design
142301	OLD	Nuclear Engineering, Nuclear Energy Conversion, Nuclear Reactor Theory, Reactor Design
142401	OLD	Ocean Engineering, Coastal Engineering
142501	OLD	Petroleum Engineering/Processing/Production, Secondary Recovery
142601	OLD	Surveying, Computer Mapping, Geodetic Surveying, Site Surveying, Photogrammetry
		The placement of most courses here was heavily dependent on the identity of the institution. Most surveying courses offered in 2-year colleges were assigned to Surveying & Mapping Technologies (150203). Forest Surveying titles were assigned to Forestry Science (030502).

CIP Code

142602 DEL Cartography

With few exceptions, cartography and related title courses (remote sensing, aerial photo interpretation, analytic cartography) were transferred to a new category/code, 450702, under Geography. While some of these courses appeared on transcripts of Engineering students, most did not.

142701 OLD Systems Engineering, Engineering Systems Analysis, Dynamics of Systems, Engineering Systems Design

142801 DEL Textile Engineering

The category was not empirically viable, i.e. it did not meet the threshold criterion.

145001 NEW Engineering Graphics, Engineering Drawing

These titles were distinguished from the Drafting series (4801), though many were offered in 2-year colleges.

147001 NEW Engineering Mathematics, Engineering Statistics, Engineering Computations

Courses with these titles were not offered in mathematics departments, and were not classifiable in the terms of the Mathematics ("27" series) categories/codes. "Calculus for Engineers" and similar titles, however, were coded under math (270601).

149999 OLD Engineering: Other, Indeterminable

150101 OLD Architectural Design and Construction Technology, Architectural Communications

This category included architecture and some civil engineering courses taught in 2-year colleges, including Building Environmental Systems, Building Layout/Materials/Methods.

150102 OLD Architectural Interior Design Technology

150199 DEL Architectural Technologies: Other

Unnecessary code.

CIP Code		
150201	MOD	Civil Technologies/Materials, Construction Cost Estimating, Contracts and Specifications, Construction Management The category was refined to exclude these administrative topics from 151001, Construction Technol.
150202	MOD	Drafting Technology, Electronic Drafting, Design Technology, Applied Design, Blueprint Reading, Model Making, Technical Illustration These titles are more distinct than those in the 4801 series, and are somewhat less vocationally oriented.
150203	OLD	Surveying Technology, Surveying, Mapping Technol. Construction Surveying, Land Surveying, Topographic Drafting
150204	DEL	Urban Planning Technology Nearly all courses originally classified here were miscoded and belonged in either the Architecture series (04) or Urban Studies (451201). The remainder did not meet the threshold rule.
150299	DEL	Civil Technologies: Other Unnecessary code.
150301	MOD	Computer Technology, Data Processing Hardware, Digital Electronics, Microtechnology
150302	OLD	Electrical Technology, DC and AC Applications
150303	OLD	Electronic Technology, AC Electronics, Basic Electronic Theory, Microwave Technology, Semiconductor Circuits, Active Devices Most "Electronic Devices" titles were offered by proprietary/vocational institutions, hence were placed in 470101. "Industrial Electronics" titles were assigned to 470105.
150304	DEL	Laser Electro-Optic Technology Did not meet threshold requirement.
150399	OLD	Electrical and Electronic Technologies: Other

CIP Code

150401 DEL Biomedical Equipment Technology

Did not meet threshold requirement.

150402 DEL Computer Servicing Technology

The few titles originally coded here were very difficult to distinguish from either those in 150301 (Computer Technology) or 470104 (Computer Electronics). It was decided to place all these titles in 150301, and to delete 470104 as well.

150403 OLD Electromechanical Technology, Electric Motor Controls, Automation, Numerical/Mechanical/Auto Controls, Electrical Machinery/Motors

150404 OLD Instrumentation Technology, Analytic Instruments, Instrument Mechanics, Electronic Instrumentation

150405 DEL Robotics Technology

Did not meet the threshold requirement.

150499 DEL Electromechanical Instrumentation and Maintenance Technologies: Other

Did not meet the threshold requirement, even after sorting viable titles from 150401, 150402, and 150405 into this bin. All residual titles were thus assigned to 159999.

150501 MOD Air Conditioning, Heating, Refrigeration, Solar Heating/Cooling Technologies, Hydronic Systems

Following the recommendation of the external faculty rating team, this category now combines the old 150505 and 150501.

150502 OLD Air Pollution and Control Technology

150503 DEL Energy Conversion and Use Technology

Did not meet the threshold requirement. Most of the extant titles belonged in 150501.

150504 OLD Sanitation Technology, Sanitary Chemistry

150505 DEL Solar Heating and Cooling Technology

See comments on 150501.

CIP Code		
150506	OLD	Water and Wastewater Technology, Treatment Plant Maintenance/Operations, Water Pollution Control, Solid Waste Processing
150599	OLD	Environmental Control Technologies: Other
150602	DEL	Food Processing Technology
		Did not meet threshold requirement.
150603	OLD	Industrial Technology, Industrial Materials, Industrial Mechanics, Control Systems
150604	RES	Manufacturing Technology, Manufacturing Processes, Assembly, Materials Technology, Manufact. Analysis
150606	DEL	Optical Technology
		Did not meet threshold requirement.
150607	OLD	Plastic Technology
150609	DEL	Textile Technology
		Did not meet threshold requirement.
150610	OLD	Welding Technology, Welding Theory/Process, Welding Metallurgy
		Many courses originally coded here, particularly those taught in vocational/technical schools, were reclassified as "Welding" (480508 under "Precision Metal Work").
150699	OLD	Industrial Production Technologies: Other
150701	MOD	Occupational and Industrial Safety, Safety Technology
		"Fire Protection Design/Management" titles were placed here, and not under the 4302 series.
150702	OLD	Quality Control Technology
150799	DEL	Quality Control and Safety Technologies: Other
		Unnecessary code.
150801	OLD	Aeronautical Technology, Aircraft Systems

CIP Code		
150803	OLD	Automotive Technology, Fuel & Exhaust Systems, Drive Systems "Internal Combustion Engine" titles were placed here, not in Mechanical Engineering (141901).
150804	DEL	Marine Propulsion Technology
150805	MOD	Mechanical Design Technology, Analytic Mechanics, Power Mechanics, Machine Design/Processes, Tool Design, Mechanical Systems
150899	OLD	Mechanical and Related Technologies: Other
150901	MOD	Mining Technology, Mine Management/Production, Mine Ventilation/Hydraulics This category was originally confined to coal mining, and a separate category (150902) covered the same topics for other kinds of mining. In this version of the CIP, both are combined here.
150902	DEL	Mining (Excluding Coal) Technology See comments on 150901.
150903	OLD	Petroleum Technology, Exploration, Well Logging This is a rare case in which the number of instances in the NLS/PETS fell below the threshold of inclusion, yet all were valid, and there was no other place to put them in the CIP system. So the category was kept.
150999	DEL	Mining and Petroleum Technologies: Other Unnecessary category.
151001	OLD	Construction Technology, Construction Lab, Construction Studio/Methods/Planning
159001	NEW	Engineering Technologies: General, Introduction
159999	OLD	Engineering Technologies: Other, Indeterminable

FOREIGN LANGUAGES (16)

The reconstruction of the foreign language codes was fairly simple and straightforward. Only one major governing principle was added: a distinction between elementary/intermediate levels of language instruction and advanced levels, including courses in literature, culture, and linguistics. For comments on coding literature in translation courses, see 230301.

All codes were maintained (unless there were zero enrollments), even if they did not meet the threshold criterion, under the a priori rule that subjects of particular concern to the national security community would be represented in our version of CIP regardless of enrollments.

160101	DEL	Foreign Languages: Multiple Emphasis The category may be applicable to programs but rarely to courses. There were no cases.
160201	OLD	African Languages
160301	MOD	Chinese: Introductory & Intermediate
160302	MOD	Japanese: Introductory & Intermediate
160321	NEW	Chinese: Advanced, Literature, etc.
160322	NEW	Japanese: Advanced, Literature, etc.
160399	OLD	Other Asiatic Languages
160402	MOD	Russian: Introductory & Intermediate
160403	OLD	Other Slavic Languages
160499	DEL	Balto-Slavic Languages: Other No cases in the database.
160422	NEW	Russian: Advanced, Literature, etc.
160501	MOD	German: Introductory & Intermediate
160502	OLD	Scandinavian Languages
160503	OLD	Dutch
160521	NEW	German: Advanced, Literature, etc. "Faust" would be coded here if the student's major and/or other patterns of coursework in German justified it. Without any prior German, it would be coded 230301. So would a title such as "The

CIP Code		
		Faustian Archetype."
160522	NEW	Sandinavian Languages: Advanced
160599	DEL	Germanic Languages: Other
		No cases after resorting.
160601	OLD	Greek: Classical, Attic Prose/Drama
		But not "New Testament Greek" or Greek taught in theological seminaries--titles placed under Biblical Languages (390101).
160602	OLD	Greek: Modern
160703	OLD	Indic Languages (Sanskrit, Urdu, Hindi, etc.)
160901	MOD	French: Introductory & Intermediate
160902	MOD	Italian: Introductory & Intermediate, Italian for Music
160903	OLD	Latin
		But not when taught in theological seminaries using Biblical texts (a fact that is usually clear in the course title). Those courses are in Biblical Languages, 390101.
160904	MOD	Portuguese: Introductory & Intermediate
160905	MOD	Spanish: Introductory & Intermediate
160921	NEW	French: Advanced, Literature, etc.
160922	NEW	Italian: Advanced, Literature, etc.
160924	NEW	Portuguese: Advanced, Literature, etc., Luso-Brazilian Literature
160925	NEW	Spanish: Advanced, Literature, etc., Golden Age, Generation of '98
160935	NEW	Spanish for Native Speakers
160999	DEL	Romance Languages: Other
		The very few cases here were in romance linguistics, and were moved to 169999.

CIP Code		
161001	OLD	Native American Languages
161101	MOD	Arabic: Introductory & Intermediate
161102	MOD	Hebrew: Introductory & Intermediate
		But not when taught in theological seminaries using Biblical Texts. See 390101.
161121	NEW	Arabic: Advanced, Literature, etc.
161122	NEW	Hebrew: Advanced, Literature, etc.
161199	DEL	Near Eastern Languages: Other
		No cases in the database.
169999	OLD	Foreign Languages: Other, Indeterminable

ALLIED HEALTH (17)

A number of rules were established to govern the presentation of the Allied Health fields. First, it was agreed that all titles referring to "Aide" were not postsecondary titles, and were removed (there were few cases, anyway), particularly when titles and codes referring to "Assistant" and "Aide" were side-by-side. Second, that the existing combinations of the words "Clinical," "Medical," "Laboratory," and "Technology" were more confusing than enlightening. We resolved confusions either by modifying the coverage of a code and/or by deletion. Third, that courses in anatomy, physiology, pathology, or biochemistry that carried an explicit designation for a health/medical technologist or assistant were to be coded under the Biology service series, 2608. This decision was adopted under the primacy of subject matter rule.

There were three major additions to the area. The first, 170901, covers the generic introductory courses in Allied Health. A second, 172001, is a service course in Medical Terminology (which is also taken by secretaries working in doctors' offices and hospitals). And the third is the entire field of Health/Physical Education/Recreation, sometimes called (in the 1970s) "Movement Science and Leisure Studies." The courses in this field basically prepare one to enter the health/recreation club service industry and are to be distinguished from those that prepare one to be certified as a Physical Education teacher in schools (131314).

CIP Code		
170101	OLD	Dental Assisting
170102	OLD	Dental Hygiene
170103	MOD	**Dental Lab Technology, Dental Materials/Ceramics, Crown and Bridge Construction** **If offered in dental schools to students pursuing a first professional degree in Dentistry, most titles here would be classified in the 1804 series.**
170104	NEW	Oral/Dental Radiology
170199	OLD	Dental Services, Other
170201	MOD	Cardiovascular/Cardiopulmonary Technologies
170202	DEL	Dialysis Technology Did not meet threshold. Moved to 170299.
170203	DEL	Electrocardiograph Technology Did not meet threshold. Moved to 170201.
170204	DEL	Electroencephalograph Technology Did not meet threshold. Moved to 170299.
170205	OLD	Emergency Medical: Ambulance
170206	OLD	Emergency Medical: Paramedic
170207	DEL	Medical Radiation Dosimetry Did not meet threshold. Moved to 170209.
170208	DEL	Nuclear Medical Technology Did not meet threshold. Moved to 170209.
170209	MOD	Radiologic (Medical) Technologies, Radiation Dosimetry, Nuclear Medical Technol., Clinical Radiography, Radiation Therapy
170210	OLD	Respiratory Therapy Technology
170211	OLD	Surgical Technology

CIP Code		
170212	DEL	Diagnostic Medical Sonography Did not meet threshold. Moved to 170299.
170299	OLD	Diagnostic/Treatment Services: Other
170301	MOD	Blood Bank/Hematology Technology
170302	OLD	Chemistry Technology
170303	OLD	Clinical Animal Technology, Animal Care
170304	DEL	Clinical Laboratory Aide All "aides" categories were eliminated from college-level Allied Health.
170305	DEL	Clinical Laboratory Assisting Titles were moved to 170309.
170306	DEL	Cytotechnology Did not meet threshold criterion; titles moved to 170310.
170307	DEL	Hematology Technology All Blood/Hematology technology titles were combined in 170301.
170308	DEL	Histologic Technology Titles moved to 170310.
170309	OLD	Medical Laboratory Technologies The coverage of this category was expanded to include specialty laboratory technologies and occupations. The keyword is "laboratory."
170310	MOD	Medical Technology The coverage of this category was expanded to include specialty technologies.
170311	MOD	Microbiological Tech/Applied Microscopy
170399	OLD	Medical Laboratory Technologies: Other

CIP Code		
170401	MOD	Alcohol/Drug Abuse/Addiction, Treatment etc. Addiction and Dependency, Dependency Populations/Rehabilitation/Counseling, Substance Abuse Prevention Techniques
		But not titles (usually less than three credits) in Alcohol/Drug Abuse Information, e.g. "Drug Awareness," "Drug Attitudes," "Habit Forming Substances," etc. These are student service courses, and were coded under 340106.
170402	MOD	Community Health/Hygiene, Community Health and Welfare, Community Health Organization/Services
		We distinguished these titles from "Hygiene and Public Health" (182203), "Personal Health and Hygiene" (340101), and "School and Community Health" (131307).
170404	DEL	Home Health Aide
		All "aide" titles eliminated.
170405	OLD	Mental Health Assisting
170406	MOD	Mental Health Technology/Methods/Treatment
170407	OLD	Rehabilitation Counseling
170408	DEL	Therapeutic Child Care Work
		The very few titles here belonged under either rehabilitation (1708 series) or Social Work (440701).
170409	OLD	Population/Family Planning
		But "Population and Society" or "Population Dynamics" courses are Demography, 450501.
170410	MOD	Sign Language Interpretation, AMESLAN, Manual Communication, Signing
		All cases of instruction in signing were placed here, even if originally coded under Special Ed or Audiology. But one or more of the above words or phrases had to be in the course title.

CIP Code

170499 OLD Mental Health/Human Services: Other

Courses that wound up in this category often included the phrase, "Human Services," and were fairly generalized, e.g. "Human Services Fieldwork" or "Human Services Leadership."

170502 DEL Central Supply Technology

No cases.

170503 OLD Medical Assisting

170504 DEL Medical Illustrating

Did not meet threshold criterion.

170505 OLD Medical Office Management

170506 MOD Medical Records Technology, Health Record Applications/Systems

170507 MOD Pharmacy Assisting, Dispensary, Pharmacy Tech

170508 DEL Physician Assisting

Did not meet threshold.

170510 DEL Podiatric Assisting

No cases.

170512 DEL Veterinarian Assisting

The few titles here belonged in 170303.

170513 DEL Health Unit Coordinating

It was difficult to determine what the titles here meant. Most belonged under 180701.

170514 DEL Chiropractic Assisting

No cases.

170599 OLD Allied Health Services: Other

170601 DEL Geriatric Aide

No cases. For future versions of the CIP system,

CIP Code		
		this category should be retitled and used to cover service courses in gerontology/geriatrics and health care for the elderly.
170602	DEL	Nursing Assisting
		Combined with 170605.
170605	MOD	Practical Nursing, Nurse Assisting
170606	DEL	Health Unit Management
		The difference between this category and 170513 was difficult to determine. The few valid titles were moved to 180701.
170699	DEL	Nursing-Related Services: Other
		Most titles originally coded here belonged under the Nursing series (1811).
170701	MOD	Opthalmic Services & Technology: All
170705	DEL	Optometric Technology
		Combined with 170701.
170799	DEL	Opthalmic Services: Other
		Unnecessary code. Combined with 170701.
170801	OLD	Art Therapy
170802	DEL	Corrective Therapy
		Given other discrete categories in the CIP system, this category was deemed redundant and confusing.
170803	DEL	Dance Therapy
		No cases.
170804	MOD	Kinesiology, Exercise Physiology, Movement Science
		But not "Creative Movement," which is sometimes a Physical Ed Activities course (360108) or an Education course (131322).
170806	OLD	Music Therapy

CIP Code		
170807	MOD	Occupational Therapy: all titles
170808	DEL	Occupational Therapy Assisting No valid cases.
170809	DEL	Occupational Therapy Aide No cases. No "Aide" categories.
170811	DEL	Orthotics, Prosthetics No cases.
170812	DEL	Orthopedic Assisting Did not meet threshold criterion.
170813	OLD	Physical Therapy: All Titles
170814	DEL	Physical Therapy Aide No cases. No "Aide" categories.
170815	DEL	Physical Therapy Assisting No valid cases.
170816	MOD	Recreational Therapy, Therapeutic Recreation Note that these are not "recreation" (series 31) titles. They must specify "therapy."
170817	DEL	Recreational Therapy Assisting No cases.
170818	OLD	Respiratory Therapy
170819	DEL	Respiratory Therapy Assisting No cases.
170820	DEL	Speech/Hearing Therapy Aide The titles originally coded here belonged in the 1801 series.

CIP Code		
170822	DEL	Recreational Therapy Aide No cases. No "Aide" categories.
170899	OLD	Rehabilitation Services: Other
170901	NEW	Health Services & Science: General Also, "Contemporary Health Problems," "Health Care Systems," "Allied Health Studies," "Concepts of Health." Titles referring to "individual health" or "hygiene" were usually classified under 340101. Any title referring to "Health" that carries less than 3 credits probably should not be coded here.
171001	NEW	HPER: Intro/General/Survey/History/Concepts "Health, Physical Education and Recreation" (HPER) covers generic, non-schoolteacher-oriented courses. It is distinguished from "Physical Education" titles that refer to schools (131314), "Recreation" titles (31 series), physical education activities courses (usually carrying less than 3 credits), etc.
171002	NEW	Athletic Injuries/Training, Care and Prevention of Athletic Injuries
171003	NEW	Adaptive Physical Education, Physical Education for Special Populations For "adapted" physical education, see 340107.
172001	NEW	Medical Terminology Whether "for secretaries" or "for lawyers" or for somebody else, all Medical Terminology titles were coded here.
179999	OLD	Allied Health: Other Does not cover such titles as "Math for Allied Health" (270801) or "Medical Law for Health Workers" (220199).
180101	MOD	Audiology, Audiometry, Hearing Disorders, Aural Theory

CIP Code		
180102	MOD	Speech Pathology/Neuropathology, Cleft-Palate, Stuttering
180103	MOD	Speech-Language Pathology/Audiology, Communication Disorders, Hearing Science
180199	OLD	Audiology/Speech Path.: Missing, Indeterminable

BASIC CLINICAL HEALTH SCIENCES (1802)

This subsection of the CIP evidently confused the original (1984) coders. Their confusion is understandable in light of the failure of the CIP to indicate that the topics covered by these codes are normally taught at the post-baccalaureate level, and in specialized schools of medicine, dentistry, and health sciences. The original coders thus classified thousands of Life Science "service" courses for undergraduate students of nursing, allied health, physical education, etc. in various "clinical health sciences."

Our reconstruction was designed to correct this misconception, and its decision rules were heavily dependent on institutional type and academic program. That is--and across all categories in the "1802" group--courses offered for students in clearly post-baccalaureate programs, e.g. "Anatomy for Dental Students," stayed, while those offered to students in pre-baccalaureate programs, e.g. "Anatomy for Nurses," were moved elsewhere. Likewise, "Clinical Anatomy" offered in a school of medicine stayed, while a course with the same title offered in a community college or a school of chiropractic was moved. In the process, we created a new set of categories/codes in the Life Sciences (the "26" series) for service courses (2608).

"Clinical Health Sciences" also describe programs and courses leading to Master's and Ph.D. degrees. Where a course, e.g. "Neuroanatomy" or "Microanatomy" was originally coded here and was offered by a doctoral-degree granting institution, we gave the original coders the benefit of the doubt, and let the entry stand.

The course title most frequently coded in the 1802 series was "Anatomy and Physiology" (also "Human A&P," "Body Structure and Function," and other similar titles). This course is not a Clinical Health Science course, rather a Biology service course, and, in our new CIP schema, is now coded 260801.

180201	MOD	Clinical Anatomy, Medical Anatomy, Oral Anatomy, Microanatomy, Neuroanatomy

CIP Code		
		Courses in Applied Anatomy, Head & Neck Anatomy in schools of chiropractic, etc. were moved to other categories.
180202	MOD	Clinical Biochemistry, Dental Biochemistry, Medical Chemistry, Biochemistry of Medicinals Courses in "Organic Biochemistry" or "Physiological Chemistry" originally coded here but normally serving as service courses for nursing and allied health students, were moved to 260804 (a new category).
180203	MOD	Clinical Microbiology, Medical Bacteriology, Medical Mycology
180204	OLD	Clinical Pathology "Pathophysiology" and other similar titles were removed from this category and placed in the Biology service series (260803).
180205	MOD	Clinical Physiology, Medical Physiology This code was also used to cover courses concerning the study of major functional organ systems, e.g. Cardiovascular, Respiratory, Renal, etc., and courses with the simple title, "Physiology," taught in medical schools and health science centers. "Human Physiology" titles, on the other hand, were classified under Biology (260706).
180206	DEL	Clinical Toxicology Failed to meet the threshold rule.
180299	OLD	Basic Clinical Health Sciences: Other
180301	OLD	Chiropractic Virtually all courses taught in specialized schools of Chiropractic and which contained the key phrase, "for Chiropractic," were placed here.
180401	OLD	Dentistry: General
180402	MOD	Preventive Dentistry/Dental Public Health

CIP Code		
180403	OLD	Endodontics, RCT (Root Canal Therapy)
180404	OLD	Oral/Maxial Facial Surgery
180405	OLD	Oral Pathology
180406	OLD	Orthodontics
180407	OLD	Pedodontics
180408	OLD	Periodontics
180409	MOD	Prosthodontics & Restorative Dentistry, Crowns, Bridges, Bridgework
180410	NEW	Operative Dentistry/Oral Surgery
180499	OLD	Dentistry: Other
180701	MOD	Health Servs./Hospital Admin, Hospital/Health Unit Management
180702	OLD	Health Care Planning
180703	OLD	Medical Records Administration
180799	OLD	Health Servs Administration: Other
180901	OLD	Medical Laboratory
181001	OLD	Medicine: General
181002	DEL	Allergies & Endomology
		Did not meet threshold; moved to 181001.
181003	OLD	Anesthesiology
181004	DEL	Colon and Rectal Surgery
		No cases.
181005	OLD	Dermatology
181006	OLD	Emergency Medicine
181007	OLD	Family Practice

CIP Code		
181008	DEL	Geriatrics
		Titles originally coded here were not geriatric medicine titles, rather geriatric nursing or geriatric services (1907 or 4407 series).
181009	OLD	Immunology
181010	OLD	Internal Medicine
		Includes standard range of I.M. topics and specialties, such as Cardiology, Thoracic Medicine, Gastrointestinal Medicine, Urology, Endomology, etc.
181011	DEL	Neurological Surgery
		Did not meet threshold; moved to 181026.
181012	DEL	Nuclear Medicine
		Did not meet threshold; moved to 181099.
181013	OLD	Obstetrics and Gynecology, OBGYN
181014	OLD	Opthamology
181015	DEL	Orthodontic Surgery
		Did not meet threshold; moved to 180406.
181016	OLD	Orthopedics
181017	OLD	Otorhinolaryngology/Otalaryngology
181018	OLD	Pathology
		Only courses taught in medical schools should be coded here. See comments under 180204 and 260704.
181019	OLD	Pediatrics
181020	OLD	Physical Medicine & Rehabilitation
181021	DEL	Plastic Surgery
		Did not meet threshold; moved to 181026.
181022	OLD	Preventive Medicine

CIP Code		
181023	OLD	Psychiatry
181024	OLD	Neurology
181025	OLD	Radiology
181026	MOD	Surgery: General/Plastic/Thoracic/Neurological, etc.
181027	DEL	Thoracic Surgery
		No cases.
181028	DEL	Urology
		Moved to 181010.
181029	OLD	Hematology
181030	DEL	Sports Medicine
		Did not meet threshold after sorting. Moved to 181099.
181099	OLD	Medicine: Other
181101	MOD	Nursing: General/Principles/Fundamentals, Nursing Process/Clinic, Professional Orientation
181102	DEL	Anesthetist
		All valid titles were moved to 181003.
181103	MOD	Maternal/Pediatric Nursing
		Also Child Health, Obstetric Nursing, Care of Children
181104	MOD	Medical/Surgical Nursing, Operating Room Nursing, Emergency Room Nursing, Intensive/Acute Care Nursing, Cardiovascular Nursing
181105	OLD	Nursing Administration
181106	OLD	Psychiatric/Mental Health Nursing
181107	MOD	Public/Community Health Nursing

CIP Code		
181199	OLD	Nursing: Other, Indeterminable The "other" titles that wound up here included "Episodic Care," "Nursing Research," and similar titles that cut across the other categories.
181201	OLD	Optometry
181301	OLD	Osteopathic Medicine
181401	OLD	Pharmacy Includes all Pharmacy-related titles except Pharmaceutical Chemistry (400505), and Pharmaceutical Law (220199)
181501	OLD	Podiatry
181701	DEL	Pre-Dentistry There may be degrees in "pre-dentistry," but there were no courses.
181801	DEL	Pre-Medicine There may be degrees in "pre-medicine," but there were no courses.
181901	DEL	Pre-Pharmacy Even assuming that there are degrees in "pre-pharmacy," there were no courses.
182001	DEL	Pre-Veterinary There may be degrees in "pre-veterinary," but there were no courses.
182201	OLD	Public Health Lab Science
182202	OLD	Epidemiology
182203	DEL	Public Health Education The titles originally coded here belonged either under 131307 (school-based health education) or 170402 (community health).
182204	OLD	Public Health Practice/Management

CIP Code

182299 OLD Public Health: Other

182401 OLD Veterinary Medicine

The category covers the major titles in the Veterinary Medicine program. In addition to titles with any abbreviation of "Veterinary" in them (e.g. "Prevent Vet Med"), these include "Clerkship"/"Clinic" coupled with "Large," "Small," or "Domestic" Animals, "Feline Medicine," "Avian Diseases," (Gross) Anatomy or Physiology of "Domestic Animals," etc.

189001 OLD Clinic, Clerkship: Field Unspecified

189999 OLD Health Sciences: Other, Indeterminable

HOME ECONOMICS/VOCATIONAL HOME ECONOMICS (19 and 20)

The problems in these two sections stemmed from the original construction in the CIP system in 1979. That taxonomy was intended to apply to all levels of education, even though the CIP system was subsequently used principally for postsecondary analyses. The Vocational Home Economics series (20) was developed, in part, to describe high school home economics courses. While some of these titles turn up in postsecondary education, principally in community colleges and proprietary schools, most of them do not. Hence, many of the original codes produced either no data or minimal data, and were dropped. The entire 2006 section (Institutional Home Management), for example, failed to yield a single, valid course-title assignment.

Coders were evidently confused when roughly the same title was used in both the academic Home Economics series (19) and the Vocational (20), let alone in the personal service areas such as those covered in the 35 (interpersonal relations) and 36 (leisure and recreation) series, social work (4407 series) and design (5004 series). By referring to the identity of the institution and the student's major (where known), many of those cases were resolved in favor of the academic series. But there still were unsettling residues, principally among titles in the 2001 series, many of which could be personal service and development courses. We decided to let the original assignments stand because no decision rules could settle the assignments with reliability.

190101 OLD Home Economics: General

CIP Code

190201 MOD Business Home Economics & Family Finance

The keyword is "family." "Personal Finance," on the other hand, is coded under Business, 064001.

190301 OLD HE: Family & Community Services, Family & Community

Titles such as "Family Diagnosis and Treatment" usually belong under Social Work (440701), not here. Titles referring simply to "The Family" were coded as 451102. "Community Service," as a title without qualifiers, was coded 440201.

190401 OLD Family/Consumer Management: General

190402 OLD HE: Consumer Science, Consumer Economics

190499 OLD Family/Consumer Management: Other

190501 OLD HE: Food Science/Nutrition: General

The word, "nutrition," must be in the title. This is not true of 200108.

190502 OLD HE: Food & Food Sciences, Experimental Foods

Student major is a key. Titles referring to "regulatory and quality standards" would be placed under 020301 if the student were an Agriculture major of any kind.

190503 OLD Dietetics/Human Nutritional Services, Diet Therapy, Diet and Disease, Nutrition and Health, Nutrition Care

190504 RES HE: Human Nutrition, Principles/Elements/ Essentials of. . ., Food & Nutrition, Child Nutrition, Community Nutrition

190599 OLD HE: Food Science/Nutrition: Other

190601 OLD HE: Human Environment & Housing: General, Human Shelter

190602 MOD Household Equipment & Furniture

General titles on "interiors and furnishings" were classified under 200110. The keywords

CIP Code		
		"decorative" or "decorating" placed the title in 200505. "Interior design" titles were usually placed under 040501.
190603	OLD	HE: Housing, Family Housing, the House, Housing Costs Student major is a key to assignment here, as "housing" titles can be Architecture, Urban Design, and/or other categories in the 04 series.
190699	DEL	HE: Human Environment & Housing: Other Did not meet threshold criterion.
190701	OLD	HE: Individual & Family Development: General Titles referring to "Adolescent Development" or "Adult Development" usually belong in 420701. If less than three credits, we judged them to be personal service and development course, and placed them in either the 35 or 37 series.
190703	MOD	HE: Family Counseling/Stress/Crises, Parent Counseling Student major (where known) should determine the assignment. If Social Work (4407) or Human Services (1704), the course does not belong here.
190704	OLD	HE: Family Relations Also "Marriage and Family Relations," but not "Marriage and Family" (451102).
190705	OLD	HE: Gerontological Services See comments under 190703.
190799	OLD	HE: Individual & Family Development: Other
190901	OLD	Textiles & Clothing: General, Culture/Society and Dress, Dress and Human Behavior But the keyword, "consumer," placed a textile title in 200103.
190902	MOD	Fashion Design/Analysis/Planning/Theories/History But titles with reference to "tailoring" were

CIP Code		
		placed under 200305.
190904	OLD	Textile Science, Textile Fibers, Textile Testing/Evaluation, Fabric Studies Student major is a key to the assignment of textile science and technology titles. An Engineering or Engineering Technology major will place the title in the 14 or 15 series.
190999	OLD	Textiles & Clothing: Other
199999	OLD	Home Economics: Other
200101	OLD	VHE: Consumer/Homemaking Education: General
200102	OLD	VHE: Child Development, Care, Guidance Most of the Child Development (CD) titles are here, but not Child & Adolescent Devel. (420701), Child Welfare (440701), Child & Family (190701), Exceptional Child (131001), and Early Childhood (most likely an education course, 131204).
200103	MOD	VHE: Clothing & Textiles, Clothing Selection, Ready-to-Wear, Textiles for the Consumer But all clothing "construction" titles were coded under 200303.
200104	OLD	VHE: Consumer Education At the postsecondary level, this is most likely a personal service and development course. It was difficult to determine the placement of such titles as "Consumer Protection" or "Consumer Credit" given the existence of the 1904 series.
200105	DEL	VHE: Exploratory Homemaking A high school course.
200106	OLD	VHE: Family/Individual Health, Consumer Health The keywords are "family" or "consumer." Without them, the titles should be coded 340101.

CIP Code		
200107	OLD	VHE: Family Living/Parenthood, Expectant Parents, Parent Education, Parent Co-Op These are personal service courses designed to assist individuals, as opposed to academic courses in which problems, e.g. of "parenting" are studied. For the latter, see 190701.
200108	OLD	VHE: Food & Nutrition, Family Food, Family Meal Management, Family Nutrition, Food Selection and Preparation The keyword in this context is "family."
200109	OLD	VHE: Home Management, Housekeeping, Housekeeping Management/Supervision
200110	OLD	VHE: Housing/Furnishings/Equipment Titles included "Refinishing Your Furniture" and "Planning Your Kitchen," i.e. "how-to" courses that, depending on the number of credits involved, also could be placed in the 3601 series.
200199	DEL	VHE: Consumer and Homemaking Education: Other An unnecessary category.
200201	OLD	VHE: Child Care Services: General
200202	DEL	VHE: Child Care Aide/Assisting Did not meet threshold criterion.
200203	OLD	VHE: Child Care Management
200204	DEL	VHE: Foster Care/Family Care Did not meet threshold criterion.
200299	OLD	VHE: Child Care Services: Other
200301	OLD	VHE: Clothing Production & Services: General
200302	DEL	VHE: Clothing Maintenance Aide Did not meet threshold criterion.

CIP Code		
200303	MOD	Garment/Apparel Construction, Patternmaking, Sewing, Stitching All clothing construction titles referring to specific types of clothing, e.g. children's wear, coats, knitwear, etc. were coded here.
200304	DEL	Custom Apparel/Garment Seamstress Did not meet threshold criterion.
200305	OLD	Custom Tailoring/Fitting/Alteration
200306	OLD	Fashion/Fabric Coordination
200308	DEL	Wedding/Specialty Consultation Did not meet threshold criterion.
200399	DEL	Clothing, Apparel & Textiles Services: Other Did not meet threshold criterion.
200401	OLD	Food Production/Management/Services: General
200402	OLD	Baking
200403	OLD	Chef/Cook
200404	DEL	Dietetic Aide/Assisting Did not meet threshold criterion.
200405	DEL	Food Catering Combined with 200406.
200406	MOD	Food Service & Catering Included all titles referring to "operations" and "management" except those that explicitly referred to restaurants (060701).
200408	DEL	School Food Service Did not meet threshold criterion. Residuals combined with 200406.
200499	OLD	Food Production/Management/Services: Other

CIP Code		
200501	DEL	Home Furnishings & Equipment Services: General The general titles here belonged under 200110. The residuals did not meet threshold criterion.
200502	DEL	Custom Drapery and Window Treatment Did not meet threshold criterion.
200503	DEL	Custom Slipcovering and Upholstering Did not meet threshold criterion. See 4803 series for "upholstering" titles.
200504	OLD	Floral Design
200505	OLD	Home/Interior Decorating
200506	DEL	Home Furnishings Aide Did not meet threshold criterion.
200507	DEL	Home Service Assisting Did not meet threshold criterion.
200599	DEL	Home Furnishings & Equipment Services: Other Did not meet threshold criterion.
2006	DEL	Institutional Home Management & Supporting Services Entire section, consisting of seven codes, covering custodial services, executive housekeeping, companion to the aged, etc. was deleted. None of the titles met the threshold criterion.
209999	OLD	Vocational Home Economics: Other

INDUSTRIAL ARTS (21)

Industrial Arts is a section of the CIP very much like Vocational Home Economics. That is, it was originally designed to describe secondary school courses. But in this case, all of the codes and titles proved viable, principally because these courses are offered and frequently taken in Area Vocational/Technical Institutes (AVTIs), which are postsecondary institutions. They are also courses taken by future Industrial Arts teachers, but, even as such, they were coded here and not under Education.

Many titles found under IA are literally identical to titles found elsewhere, e.g. "Construction Methods" (151001) or "Structures" (150201). Student major and institutional type must be used to determine the proper assignment.

210101 OLD Industrial Arts: General

210102 OLD IA: Construction

210103 OLD IA: Drafting and Design

These are not specialized occupational drafting courses (4801) series, nor commercial art/design (5004).

210104 OLD IA: Electricity/Electronics

210105 OLD IA: Energy, Power & Transportation

210106 MOD IA: Basic Graphics/Mechanical Drawing

These titles are clearly distinguished from Engineering Graphics (145001), or design graphics (5004 series), etc. They are basic.

210107 OLD IA: Manufacturing/Materials

210199 DEL Industrial Arts: Other

All titles sorted into other categories.

LAW (22)

This section was reconstructed along three lines. First, to ensure that the classic curriculum of students seeking LLBs/JDs in law schools was gathered here, as opposed to being scattered elsewhere. Second, to exclude courses dealing with the law taught in the context of either business or criminal justice (read "Police Academy") programs. For example, "business law," "legal environment for business," etc., courses were assigned to a new category, 060102. On the other hand, courses in "commercial transactions" taught in law schools were kept here. The same pattern was followed for titles in "criminal procedure," for example. Third, to separate, as much as possible, courses dealing with legal aspects of specific fields and usually taught within those fields. With few exceptions, these were placed in

CIP Code

220199, "Law: Other." Institutional type, student degree level, and student major were all used as criteria in the assignment of specific titles. For example, a course in "constitutional law" taken by a political science major in a comprehensive college was assigned the code, 451003 ("Constitutional Law, Constitutional/ Judicial History") under Political Science.

220101	OLD	Law [includes Torts, Contracts, Labor Law, International Law, Administrative Law, Trusts, Wills, Family Law, Domestic Relations, Agency, Estates, Property, Litigation, Moot Court, Appellate Advocacy, Civil Procedure, Municipal Corporations, Legal Clinic, Patent Law, etc.] This category was reserved for the standard law school curriculum.
220102	DEL	Pre-Law Code does not apply to courses, rather programs.
220103	MOD	Legal Assisting, Research, Writing; Legeal Bibliography, Para-legal
220199	OLD	Law: Other A miscellany of titles wound up in this category, including "Law and Society," "Law for Junior Officers" (Military Science context), Medical/ Legal Problems," "Education and the Law," "Pharmaceutical Jurisprudence," etc.

ENGLISH/LITERATURE IN ENGLISH (formerly "Letters"), (23)

The recoding of English/Literature in English courses involved establishing decision rules for different levels of writing courses, for sorting literature courses, for distinguishing literature in translation from literature in the original language, and for delineating borders between English and Communications, Teacher Education, and other fields involving communication/language skills.

In the process, three new 4-digit series were created: 2301 for general literature/genre topics; 2320 for remedial language skills courses; and 2390 for special topics in literature.

The 2301 series categories were used for general titles, along with titles covering groups of authors or genre/period combinations which could not be classified under "comparative," "English," or "American" literature (e.g. "Short Fiction of the 19th Century," "Yeats and Stevens"). If the title specified "English Fiction of the 19th Century," then the course was classified as 230801; "Cummings and Stevens" would be American Literature, 230701. "Walker and Baldwin" would be Afro-American Literature, 230702. The potential for idiosyncratic judgment calls is high here. For example, "Poetry of the 16th Century" has to be English Lit (230801) because American Lit did not exist in the 16th Century. "Poetry of the Romantic Period" was also classified under 230801, even though a course with that title might include some works by American authors.

The 2320 series was used to cover basic skills and developmental writing, remedial reading and reading improvement, and basic speech (see commentary on the 09 series with respect to speech).

Course titles referring to "Children's Literature" or "Adolescent Literature" are not classified as English courses: they belong in Education under 131323.

230101	MOD	Literature: General/Introduction to, World Literature, Literary Masterpieces
230102	NEW	Poetry: General/Introduction to, Epic, Lyric, Narrative Poetry
230103	NEW	Fiction: General/Introduction to, Short Story, Short Fiction, Novela
230104	NEW	Drama: General/Introduction to The category covers drama as literature. It does not include theatre arts titles such as "acting," "directing," etc. These are covered in 500501. Nor does it cover "history of the theatre" and "theatre criticism" courses. These are covered in 500502.
230105	NEW	Non-Fiction Prose, Biography, Essays etc. But a title such as "Expository Essay" is most probably a writing course, 230401.
230201	OLD	Classical Literature, Greek/Roman Literature (Drama, Poetry) in Translation, [Specific Authors] e.g. Aeschylus, Virgil, Plautus; [Specific Works] e.g. The Odyssey, the Orestia, Classical Mythology

CIP Code

The works of classical historians, e.g. Herodotus, Pliny, were not coded here, rather under 450802, "Ancient History."

230202 NEW The Bible as Literature, Poetry of the Old Testament, Life and Language of the Bible, etc., Bible History and Literature

This category is distinguished from Bible studies in a theological context (390201) and various Bible titles under the Religion series (3802). The titles covered here were distinctly secular. Institutional type (Carnegie code) was used as an additional guideline. A Bible course in a Carnegie Code 51 institution (seminary, bible college) is not a "Bible as literature" course.

230301 OLD Comparative Literature: European Lit. in Translation, Continental Literature

This is a tricky category. If the student is majoring in a foreign language, the chances are high that a course in that literature (e.g. 19th Century French Fiction) or the work of a single author (e.g. Goethe) will not be in translation, hence should be classified under the appropriate code in the 16 series. But the student's major is not always the best guide.

Typical titles here include Renaissance Lit., Continental Fiction, Romanticism, Medieval Epic, Dante/Chaucer/Cervantes (and similar combinations)

230302 NEW Comparative Literature: Non-Western, Third World Literature in Translation

Here, too, major plays a role in the assignment.

230401 OLD Freshman Composition, Freshman English, College English, Composition & Literature, Composition & Rhetoric, Reading & Composition, Exposition

This is the standard freshman composition course. One tricky title often coded here is "Composition and Conversation." Chances are high that the course is a foreign language course. Entire student records had to be examined to make that determination.

CIP Code		
230402	NEW	Spoken/Written English; Advanced Grammar The titles here indicate a level of freshman composition that is somewhat remedial. The emphasis is on "correct usage."
230501	OLD	Creative Writing, Writing Poetry/Fiction/Drama Writing for television, film, radio, etc., is not covered here, rather in 090701.
230601	OLD	Linguistics: General, Introduction to, Generative Grammar, Semantics, Philology, Descriptive Linguistics, Contrastive Linguistics, Dialectology, Phonetics This is not Anthropological Linguistics. If the title reads "Linguistics/Language and Culture," the course should be coded 450206.
230701	OLD	American Literature, American Fiction/Drama/Poetry/Humor/Short Story, American Renaissance, American Realism/Romanticism, Transcendentalism, [individual or groups of authors, e.g. "Poe, Hawthorne, Melville"]
230702	NEW	Afro-American Literature/Fiction/Drama/Writers
230801	OLD	English Literature: All Periods, Metaphysical Poets, Romantic Poets, Bloomsbury Group, Anglo-Saxon Epic, Victorian Age, Augustan Age, Jacobean Drama, etc., [individual or groups of authors, e.g. "Chaucer and His Century"]
230802	NEW	Shakespeare
231001	MOD	Public Speaking, Debate, Oral Interpretation, Forensics, Parliamentary Procedure, Business & Professional Speaking
231002	NEW	Voice & Articulation, Diction
231101	OLD	Technical and Business Writing
231201	OLD	English as a Second Language
231301	NEW	Criticism, Literary History, Theory, Research Methods, Bibliography

CIP Code		
232001	NEW	Remedial English: General; Basic Skills English, Language Skills, Writing Skills, Grammar, Punctuation, Spelling, Developmental English, Elementary Communication
		"Communication Skills" is coded here, not under any 09 (Communication) series category.
232002	NEW	Basic Reading, Reading Improvement, Reading Skills, Reading Comprehension, Speed Reading
		To be sure, "Speed Reading" isn't necessarily remedial.
232003	NEW	Remedial/Basic Speech, Basic Oral Communication, Basic Oral Skills, Listening Skills
239001	NEW	Other Determinable Literature Topics
		Some common examples include Comedy, Satire, Tragedy, Heroism, Science & Lit, Psych & Lit
239002	NEW	Science Fiction, Fantasy, etc.
239003	NEW	Folklore, Mythology (Gen.)
239004	NEW	Literature & Film/Film as Literature
239999	MOD	Letters: Missing, Indeterminable

LIBERAL/GENERAL STUDIES (24)

In the original CIP system, these categories were created, in effect, to describe the general Associate's degree. They were program categories, not course categories, and best serve their original function. We found many course titles, however, that fit these categories: they did not refer to even the broadest fields of study. A course entitled, "Liberal Arts Physical Science," for example, was classified 400101, not here.

240101	OLD	Liberal Arts & Sciences
		Covers titles such as Contemporary Issues/Ideas, Freshman (or any class) Colloquium/Seminar, General Lecture Series, General Honors Program, Introduction to Liberal Studies
240102	OLD	General Studies

CIP Code

240199 DEL Liberal/General Studies: Other

Unnecessary category.

LIBRARY AND ARCHIVAL SCIENCES (25)

Even if the title specified "for the library," such entries as "Storytelling" or "Children's Literature" were classified under 131323 (Reading and Language Arts).

250101 OLD Library/Archival Science: General

250201 OLD Archival Science, Manuscript Collections

250301 DEL Library Assisting

Did not meet threshold criterion.

250401 MOD Library Science, Cataloging, Classification, Non-Book Materials

250501 OLD Museology

259999 OLD Library/Archival Science: Other

BIOLOGICAL SCIENCES (formerly "Life Sciences") (26)

First, we retitled the "26" series of the CIP, "Biological Sciences," so as to clarify the boundaries between topics covered in traditional arts and sciences courses and those in allied health, health sciences, health professions, and agriculture (animal science and plant science) courses.

Second, our reconstruction of the field deemphasizes the distinction between Botany and Zoology in the original CIP system in favor of a more modern taxonomy.

One of the residual problems in the CIP system is that of accounting for courses under the general rubric of "biopsychology." Our basic decision rules for courses normally taught in a biopsych curriculum included classifying "behavior genetics" under genetics (260615), giving "animal behavior" its own category (260707), making sure that the various neurobiology related titles were classified under "neuroscience" (260608), placing three and four-credit courses in "drugs and behavior" under psychopharmacology (421401), and assigning all other biopsych titles to physiological psychology (421101). This approach may not please all Biology or Psychology departments,

CIP Code

but remember that, from a national perspective, who teaches what is less important than what is taught.

260101	OLD	General Biology, Introductory Biology, Biosciences Survey, Biology: Zoo + Bot
260102	NEW	Human Biology, Human Ecology
		These courses are sometimes taught in Anthropology departments, and often presented in an interdisciplinary framework.
260201	MOD	Biochemistry
		The original category also included Biophysics.
260202	NEW	Biophysics, Biomechanics
260301	OLD	Botany: General, Introduction; Biology of Plants, Seed Plants, Vascular/Non-Vascular Plants
260302	DEL	Bacteriology (code changed to 260502)
		This is a case in which the category was misplaced in the CIP system. Bacteriology is more allied with Microbiology (260501) than with Botany, hence was moved from the Botany (2603) subseries.
260304	DEL	Plant Genetics
		All genetics courses (molecular, plant, human, animal, etc.) are now combined in a distinct "specialized area" category (260615). Applied Plant Genetics courses originally classified here were moved to Agronomy (020402).
260305	OLD	Plant Pathology: General
260307	OLD	Plant Physiology
260308	NEW	Plant Morphology, Plant Growth & Development
260310	NEW	Plant Taxonomy, Plant Diversity, Plant Systematics Plant Kingdom
260399	OLD	Botany: Other, Indeterminable
260401	OLD	Cell Biology
260402	OLD	Molecular Biology

CIP Code		
260499	DEL	Cell and Molecular Biology: Other Unnecessary category.
260501	OLD	Microbiology Most Electron Microscopy titles in 4-year colleges were placed here. The exceptions (along with Microscopy titles in 2-year colleges) were titles such as "Applied Microbiology and Microscopy," assigned to 170311 (Microbiology Technology under Allied Health).
260502	NEW	Bacteriology, Virology (code changed from 260302)
260601	MOD	Anatomy: Plant and Animal, Microanatomy, Neuroanatomy, etc.
260602	OLD	Biometrics and Biostatistics
260603	MOD	Ecology, Population Biology, Bioecosystems, Plant Ecology, Environmental Biology, Aerobiosis
260604	MOD	Embryology, Developmental Biology
260605	OLD	Endocrinology
260606	OLD	Histology, Cytology
260607	MOD	Aquatic Biology, Marine Biology, Limnology, Aquatic Plants, etc. Originally, this category was confined to Marine Biology.
260608	OLD	Neurosciences, Neurobiology, Neurophysiology, Brain and Behavior Many of these courses in the NLS/PETS with the simple title, "Neuroscience," were offered in health sciences centers, hence might have been classified under Clinical Health Sciences (1802).
260609	DEL	Nutritional Sciences Most of the titles originally classified here were human nutrition and nutritional services courses that properly belong in the "1905" subsection of Home Economics.

CIP Code		
260610	OLD	Parasitology Course titles dealing with plant parasites were moved to Agriculture: Plant Sciences.
260611	DEL	Radiobiology Nearly all the course titles originally coded here were radiology/radiological technology courses that properly belong in Allied Health (170209).
260612	OLD	Toxicology
260613	NEW	Evolution
260614	NEW	Field Biology, Field Natural History, Field Botany In some ways, all "field" courses are methods courses, and can be grouped together. We included all the local/state/regional flora and fauna courses in this category.
260615	NEW	Genetics, Molecular Genetics, Plant Genetics, Human Genetics, Behavior Genetics
260699	OLD	Miscellaneous Specialized Areas of Life Sciences: Other
260701	OLD	Zoology: General, Introduction
260702	OLD	Entomology
260703	DEL	Genetics: Human and Animal (see 260615)
260704	OLD	Pathology: Human and Animal But not if taught in a medical school. See comments for 180204 and 181018.
260705	OLD	Pharmacology: Human and Animal This category does not include pharmacology courses taught in schools of pharmacy. Those courses are classified as Pharmacy (181401).
260706	OLD	Physiology: Human and Animal
260707	NEW	Animal Behavior/Language/Communication, Ethology

CIP Code		
260708	NEW	Ornithology Of all the traditional subdivisions of Zoology, this was the only new entry in our version of the CIP because it was the only subfield with enough instances of course-taking to cross the threshold.
260799	OLD	Zoology: Other
260801	NEW	Anatomy and Physiology, Applied Anatomy, Applied Physiology (service course)
260802	NEW	Plants and the Environment, Plants & Civilization, Plants and Man This is not a "service course" in the same sense as others in the 2608 series, i.e. it is not a requirement of other majors. Rather, it is a "babified" version of Botany, and the external rating team did not want it included in the 2603 series.
260803	NEW	Pathophysiology, Introduction to Disease (service course)
260804	NEW	Organic Biochemistry, Physiological Chemistry, Human Biochemistry (service course)
260805	NEW	Human Growth and Development This course, like 260802, is also less of a "service course" than others in this category. In the NLS/PETS data base, courses with this title were also classified in Anthropology, Home Economics, and Psychology. But a catalogue check demonstrated that they were most likely to be a second course in a "Human Biology" sequence, and most likely to be taught in Biology departments.
269999	OLD	Life Sciences: Other, Indeterminable

MATHEMATICS (27)

Basically, the only Mathematics codes in the 1985 version of the CIP that remained untouched by our reconstruction were those for Statistics (270501) and Mathematics: Other (279999). We threw out the entire CIP classification system (which had only 6 codes), and set the codes so that all categories coded 2701 were unquestionably pre-collegiate mathematics, and that all categories coded 2702 were college-level but pre-calculus math.

270101	MOD	Pre-Collegiate Math: General, Basic Concepts of Math, Elementary/Intro Math, Foundations of Math
270102	NEW	Arithmetic, Computation
270103	NEW	Pre-Collegiate Algebra
270104	NEW	Pre-Collegiate Geometry, Plane Geometry, Descriptive Geometry
270199	NEW	Developmental Math, Other Pre-Collegiate Math
270201	NEW	Introduction to College-Level Math, Core Math, Math as Liberal Art, Comprehensive Math, Math for Behavioral/Economic/Social Science "270201" was originally applied to "Actuarial Science. There was only one instance of this or any related course title in the NLS/PETS. In our scheme, Actuarial Science is included in 270701.
270202	NEW	Finite Math, Discrete Math, Computer Math, Data Processing Math
270203	NEW	College Algebra
270204	NEW	Pre-Calculus, Analytic Geometry, etc.
270301	DEL	Applied Math This was too amorphous a category for classifying courses, since it applied to everything from "Shop Math" in vocational schools to advanced Engineering math.
270401	DEL	Pure Mathematics It was hard to tell what the original authors of the CIP system had in mind here. The original coders of the NLS/PETS didn't seem to know, either.
270501	OLD	Statistics, Probability and Statistics, Descriptive Statistics, Inferential Statistics, Stochastic Models

CIP Code		
		This category is confined to statistics taught in mathematics departments. Other codes in the CIP, both old and new, account for statistics taught elsewhere, e.g. 061301 (Business Statistics), 450641 (Economic Statistics), 458001 (Social Statistics), 421501 (Quantitative Psychology), 260602 (Biostatistics), and 147001 (Engineering Statistics).
270601	NEW	Calculus, Linear Algebra
270602	NEW	Calculus for Life Sciences/Economics/Business
270701	NEW	Advanced Mathematics Topics, e.g. Abstract Algebra, Analysis/Advanced Analysis, Number Theory, Combinatorics, Topology, Game Theory, Modern Algebra/Algebraic Structures, Real Analysis, Complex Variables
270801	NEW	Technical/Vocational Math
270901	NEW	Business Math: Pre-Collegiate, Business Computations
		Most courses in this group are really clerical math and bookkeeping math courses, hence arithmetic based.
270902	NEW	Business Math: Collegiate, Math for Finance, Math for Business/Economics
		These courses are obviously different from those in 270901. Some could involve calculus, but that was not clear from the titles.
271001	NEW	Number Systems, Number Structures, Mathematical Structures
		These courses are offered by mathematics departments to Teacher Education majors, yet are not classifiable as "Mathematics Education" (131311). Note that "Number Theory" is 270701, not here.
279999	OLD	Mathematics: Other, Indeterminable
		Under the original (1984) coding, 70% of all the math course entries were classified here because the other 5 math codes could not account for them. Under our revised system, only 7% of the math course entries are coded here.

CIP Code

MILITARY SCIENCES and TECHNOLOGIES (28 and 29)

The courses classified here are usually the generic cadet training courses in the service academies and ROTC programs. Some of the major titles used across all of the services include "Basic Cadet Training," "U.S. Military Forces," "Operations and Tactics," "National Security," Defense Policy/Establishment/Strategy/Organization, and "The Professional Officer."

280101	MOD	Air Force, Aerospace Studies, Growth/Development of Air Power The previous category title was "Aerospace Science." This was confusing. If a course title refers to "Ground School" or "Pilot Training," unless the Air Force is specifically named in the title, it is classified under 490102.
280201	OLD	Coast Guard Science
280301	MOD	Military Science, Combined Arms Operations, Small Unit Tactics Other titles included "First (Second) Year Basic," which is not a computer programming course, "Command Comm," which is not the name of a software file (the title was also found under 280101), and "Rangers."
280401	MOD	Naval Science, Navigation (and Celestial Navigation), Sea Power, Ship Systems, Naval Organization/Management, Central Systems "Naval Electronics" was classified here and not under Naval Engineering.
280501	DEL	Maritime Science (Merchant Marine) No cases.
289999	OLD	Military Science: Indeterminable
290101	OLD	Military Technologies: All
299999	DEL	Military Technologies: Other Unnecessary category. No cases.

INTER/MULTI-DISCIPLINARY (30)

The CIP system contains a separate section (the "30" series) for interdisciplinary programs. Unfortunately, the original version was somewhat stilted in its conception, and missed a number of key field developments of the 1970s, including Environmental Sciences/Studies and Science, Technology and Society (STS) programs and courses. In addition to reconstructing and filling in this section, we created new codes for the Philosophy of Science under Philosophy (the "3801" series) and the History of Science under History (the "4508" series).

300101 MOD General Science, Natural Science, Science Fundamentals, Basic Science, Integrated Science

Some of these may be interdisciplinary, but most are probably broad, multidisciplinary introductions. The category was originally titled, "Biological and Physical Sciences."

300102 NEW General Laboratory, Lab Techniques, Instrumentation

Again, these courses are not so much inter- or multi-disciplinary as unanchored to any particular science, type of science (biological or physical), or engineering.

300103 NEW Introduction to Technology, Technological Studies, Applied Science

These are not Engineering Technology courses that would otherwise be classified as 159001.

300201 OLD Clinical Pastoral Care

300301 DEL Engineering and Other Disciplines

Most of the titles we found classified here were more appropriately classified under the various Engineering codes themselves, e.g. Engineering Graphics (145001), Engineering Physics (141201), Engineering Thermodynamics (141901)

300401 MOD Humanities: General, Survey

Also covers titles such as Great Books, Great Ideas, Philosophy & Literature

CIP Code

300402 NEW Humanities & Social Sciences

300403 NEW Humanities and Arts

Combinations such as Literature and Art, or Music/History/Literature are covered here.

300404 NEW Popular Culture

Title here referred explicitly to mass culture and/or media such as comic books, broadsides, television shows, etc.

300501 MOD Peace Studies, Conflict Resolution/Management

300601 DEL Systems Science

The original (1984) coders put anything with the word "systems" here, including courses in architecture, business, biology, ecology, energy, economics, geology, heredity, religion, sociology, and law. When these were sorted to where they belonged, there was nothing left.

300701 OLD Women's Studies

The decision rules for this code depended on the principal disciplinary context. For example, a literature course such as "Women Novelists of the 19th Century" was classified under Fiction (230103), whereas a course such as "Women as Victims in Modern Literature" was classified here. In the former case, women were the producers of the artifacts; in the latter, women were the subject. Too, a course with a generic title such as "The Psychology of Gender" was classified here, but a course focusing on women within a specific subfield of psychology, e.g. "Issues in Therapy for Women" was classified under Clinical Psychology (420201).

300801 DEL Mathematics and Computer Science

This code was created in the 1985 version of the CIP and hence was not used in the 1984 coding. We accounted for the topics in other ways: Numerical Analysis/Methods, etc. in Computer Science (110801) and Computer Mathematics in Math (270202).

CIP Code

300901 DEL Imaging Science

This code was also created in 1985, and hence was not used in the 1984 coding. The field it describes is accounted for, in our scheme, under Computer Science: Advanced Topics (110701).

301001 NEW Future Studies, Futuristics

302001 NEW Science, Technology and Society (STS)

This category includes courses with titles such as "Technology and Civilization," "Scientific Beliefs and Values," "Genetics and Human Values," "Chemistry and Society."

303001 NEW Environmental Science, Environmental Studies, Energy and Environment, Pollution

The titles classified here (those above, and many others) exclude those dealing directly with "conservation" and "regulation" of natural resources, as those titles have their own home in the CIP system (0301 and 0302 under "Renewable Natural Resources").

304001 NEW Sports and Leisure Studies, History of Sports, Philosophy of Sports, Sports and Society, The Economics of Sports

309999 OLD Interdisciplinary Studies: Other

This was not a dumping ground for unclassifiable titles (see 908000). The titles here had to be legitimate, e.g. "Physics and Modern Art," "Science, Mysticism and Myth," "Materials and Civilization," "Modes of Thought," etc.

RECREATION (31)

These are not physical education/leisure activities courses. Rather, they are occupationally-oriented courses preparing individuals for various roles in the recreation industry.

310101 MOD Recreation/Parks: General, Community Recreation, Introduction to Recreation

CIP Code		
310201	MOD	Outdoor Recreat., Camp Counseling, Camp Administration, Campcraft
310301	OLD	Parks and Recreation Management, Admin. of Recreation, Recreation Program Development
310401	MOD	Water Recreation/Water Safety, Aquatics Management In the earlier versions of the CIP system, this code was used to cover titles in Water Resources, including water quality, water resource economics, etc. In this version, those titles are covered under the Renewable Natural Resource section, specifically in 030201.
310501	NEW	Sports Officiating, Refereeing, Umpiring
310601	NEW	Recreation Leadership/Supervision
310901	NEW	Recreation Practicum/Field Experience
319999	OLD	Recreation/Parks: Other

BASIC SKILLS (31)

In the original CIP system, this category mixed both personal service and tutorial/remedial courses in language skills and math. We removed the remedial courses and placed them in their respective areas (see the 2320 series for remedial language skills and the 2701 series for pre-collegiate math). The residual categories cover credit-bearing (usually less than three credits) supportive service and counseling activities.

320101	OLD	Basic Skills: General
320102	OLD	Academic/Intellectual Skills These are tutorials in how to study.
320103	DEL	Communications Skills Titles under this code were reclassified under either the 09 or 23 series.

CIP Code

320104 DEL Computational Skills

Titles under this code were reclassified under Mathematics, usually in the 2701 series.

320105 OLD Job Seeking/Changing Skills, Job Preparation, Job Interview Technique, Career Decision, Career Counseling/Planning

320106 DEL Motor Skills

The few titles originally classified here belonged under Exercise Physiology (170804), Physical Therapy (170813), etc.

320107 MOD Career Exploration/Orientation, Career Information, Careers in "X [Health, Business, etc.]," Occupational Information

320108 NEW Personal Typing

Covers titles such as Basic Keyboard, Beginners Typing, College Typing. If student major is 07, i.e. Office Occupations, the typing titles should not be coded here, rather under 070702.

320199 DEL Basic Skills: Other

Unnecessary category.

CITIZENSHIP/CIVIC ACTIVITIES (33)

This category of the original CIP system was designed for high school curricula. None of the five course categories, e.g., "American Citizenship" or "Civic Appreciation," turns up in postsecondary education. The entire section failed to yield one valid case, hence was dropped.

HEALTH-RELATED ACTIVITIES (34)

This section covers self-help, health information, and self-improvement courses, not academic courses. Some of the categories, e.g. Aerobics/Jogging or Life-Saving might have been placed in the 36 series, but they could be better justified here as basic, personal physical survival/health activities, rather than sports/physical education. "Adapted Physical Education," however, was placed here, on the grounds that it is a special, personal service for handicapped students.

CIP Code		
340101	MOD	Health & Physical Practices: Gen., Health & Hygiene, Personal Health, Biofeedback, Health and Safety But the word, "health," in combination with references to school, youth, children, etc. places the course under 131307. Likewise, the the title, "Personal and Community Health" should be coded as 170402.
340102	MOD	Sex & Birth-Related Health Practices
340103	MOD	Mental Hygiene
340104	MOD	Aerobics, Jogging, Body-Building, Conditioning
340105	NEW	First Aid, Life-Saving, First Aid & Safety/Self-Help etc.
340106	NEW	Drug/Alcohol Abuse Prevention, Drug Awareness, Habit Forming Substances, Drug Education, etc. To be distinguished from 170401, a course under which future human service workers are trained as special counselors on drug/alcohol abuse matters. This, on the other hand, is a basic student service information course.
340107	NEW	Adapted Physical Education To be distinguished from "Adaptive" PE (171003) under which future recreation workers are trained to design and provide activities for handicapped individuals.
340199	DEL	Health-Related Activities: Other Unnecessary category.

INTERPERSONAL SKILLS (35)

These are personal service and development courses, not academic social science courses. The faculty review team in Psychology, in particular, insisted that all "Applied Psychology"-type titles be placed here and not in the 42 series.

350101	MOD	Interpersonal Skills/Relations, Applied Psychology, Personal and Social Adjustment

CIP Code

If the course title contains the phrase, "Psychology of . . . ," it belongs in 421001, not here. Interpersonal/Small Group Communication courses belong in 091001, not here.

350102 MOD Relations: Love, Sex, Job; Sexual Awareness/ Relationships

But "Human Relations in Business" was classified as 060601, and "Human Sexual Behavior" as 451003.

350103 DEL Perception of Others

Confusing category. The titles belonged in 350101 or 350102.

350104 MOD Assertiveness, Leadership, Assertiveness Training, Effective Leadership, Personal Effectiveness

340199 DEL Interpersonal Skills: Other

Unnecessary category.

LEISURE AND RECREATIONAL ACTIVITIES (36)

The major challenge of reconstruction in this section was to disaggregate the huge (over 26,000 cases in the original course file of the NLS/PETS) category of Physical Education Activities (360108) in ways helpful to other analyses. All the new categories in the 36 series, as well as some in the 34 series, are products of this disaggregation. To distinguish a Physical Education Activity course (36) from a Physical Education course to prepare a student for teacher certification (131314) from a Physical Education/Recreation course to prepare a student for non-school-based work in the leisure service industry (1710 series) involved reference to student major, number of credits in the course, and (less often) institutional type.

360101 OLD Leisure & Recreational Activities: Gen

360102 OLD Leisure & Recreational Crafts

360103 OLD Games

360104 DEL Hobbies

Did not meet threshold criterion.

CIP Code		
360105	DEL	Housing/Home Maintenance Did not meet threshold criterion. Titles moved to 200109 (under Vocational Home Economics).
360106	DEL	Nature Appreciation Did not meet threshold criterion.
360107	DEL	Pet Care. Did not meet threshold criterion.
360108	OLD	Physical Education Activities, Intramural Sports, Individual Sports, Team Sports, [Any sport named individually or in combination, and without the words, "varsity," "intercollegiate," or "team practice"] One major problem here is with dance: ballet, square, modern, jazz, ballroom, etc. As a rule of thumb, square dancing, folk dancing, and ballroom were coded here. Ballet, modern, and jazz dancing were coded under 500301. But the latter assignments were also conditioned by student major.
360109	DEL	Travel Did not meet threshold criterion. Titles belonged under 0811 series.
360110	NEW	Self-Defense, Karate, Judo, etc.
360111	NEW	Equestrian Activities, Riding, Equitation, Dressage
360112	NEW	Yoga, Hatha Yoga, Meditation
360113	NEW	Scuba/Skin Diving
360114	NEW	Fishing, Angling, Fly-Casting
360115	NEW	Riflery, Pistol, etc. (Non-Military)
360201	NEW	Varsity Athletics: Major Sports, i.e. Football, Basketball; Team Practice/Football or Basketball; Intercollegiate Sports: Football/ Basketball

CIP Code		
360202	NEW	Varsity Athletics: Other Sports; Team Practice.. Intercollegiate. . .etc.
360199	OLD	Recreational/Leisure Activities: Other

PERSONAL AWARENESS (37)

370101	MOD	Personal/Self-Awareness, Human Potential, Personal Growth, Self-Appraisal, Self-Development/Image
370102	OLD	Coping Skills, Daily Living, Stress, Stress Management
370103	OLD	Personal Decision-Making, Personal Goals and Objectives, Life Planning
370104	MOD	Personal Appearance, Charm, Poise, etc. In programs involving training for models, flight attendants, and secretaries, these courses are more than personal service and development--they are required.
370105	OLD	Personal Values/Attitudes/Life-Styles
370199	DEL	Personal Awareness: Other Unnecessary category.

PHILOSOPHY (3801)

In the original CIP taxonomy, Philosophy was a unitary field code. The disaggregation was fairly straightforward: a set of codes for the generic divisions of the field (Ethics, Aesthetics, Metaphysics, etc.); another set for the history of philosophy and surveys of philosophy by historical period; and a third set for miscellaneous but commonly taught topics.

Many titles in the humanities, art history, history, and some other social sciences, require coders know the names of the leading figures whose works are studied. In philosophy, as in those other fields, these names are too numerous to list here.

Not all course titles with the word "philosophy" belong in the 38 series. "The Philosophy of Sport," for example, was placed under 304001, an interdisciplinary code for "Sports and Leisure Studies." "Political Philosophy/Philosophy of Politics" is under

CIP Code

Political Science, along with political theory and ideology **titles** (451004).

380101	MOD	Intro. Philosophy, Basic Philosophical Problems, Philosophical Inquiry, Principles of, etc.
380102	NEW	Ethics, Moral Philosophy, Applied Ethics, Ethics in Business (or Law, Medicine, etc.), Moral Issues/Problems
		Note that we treated the applied ethics courses under Philosophy and not under the professional fields.
380103	NEW	Logic, Formal Reasoning, Deductive Logic, Logic and Methodology
		Some analogous titles may be found under Math or Computer Science.
380104	NEW	Aesthetics, Philosophy of Art
380105	NEW	Metaphysics, Epistemology, Philosophy of Knowledge, Being and Knowing, Knowledge & Reality
380106	NEW	Philosophy of Language, Ordinary Language Phil
380110	NEW	History of Philosophy: General
380111	NEW	Ancient & Medieval Phil, Pre-Socratic Philosophy
380112	NEW	Philosophy: Renaiss. through 19th C., Rationalism, Empiricism, Transcendental Philosophy
380113	NEW	Contemporary Philosophy: Analytic Philosophy, Existentialism, Phenomenology
380114	NEW	Non-Western Philosophy
380120	NEW	Philosophy of Education
		This is not **the** "Philosophical Foundations of Ed" **title that is** covered under 130901. The category **is perhaps** illustrated by a title such as "Plato's **Philosophy** of Education."
380121	NEW	Philosophy of Science, Scientific Inquiry, Scientific Method

CIP Code		
380122	NEW	Philosophy of Religion This title is clearly distinguished from "Religious Studies" (3802 series), and Theology (390601). If the title referred to the philosophy of a particular religion, it would not be classified here.
380199	MOD	Philosophy: Indeterminable, Missing

RELIGIOUS STUDIES (3802)

We retitled the field (originally "Religion"), and disaggregated a single code, in order to sort more accurately titles that might otherwise have been classified as "Theology." (39 series) The identity of the institution and (sometimes) the student's major were the principal guides to assigning titles. For example, a "Christian Doctrine" course taught in a state university is a Religious Studies course; a course with the same title in a bible college is Theology.

380201	MOD	Religion: General, Comparative Topics
380202	NEW	Non-Western Religions, Bhuddism, Hinduism, Hindu Texts, Confucius, Taoism, Islam, the Koran
380203	NEW	Mormon Texts and History, Book of Mormon, L.D.S. Doctrine
380204	NEW	Christianity: All Topics
380205	NEW	Judaism: All Topics
380206	NEW	Religious Ethics/Morality
389999	OLD	Philosophy & Religion: Other

THEOLOGY (39)

Theology is not Religious Studies (3802 series). Most courses classified as Theology are given in either theological seminaries or denominational colleges. The one exception is "Bible Studies." In order to be classified as 230202 (Bible as Literature/History, etc.) the title had to be explicit. Too many Bible Studies titles were generalized, and the generalized titles were placed here.

CIP Code		
390101	MOD	Biblical Languages: Seminary, New Testament Greek, Ancient Hebrew, etc.
390201	OLD	Bible Studies, Sacred Scriptures, Synoptic Gospels, Pentateuch, Johannine Epistles
390301	MOD	Missionary Studies, Evangelism
390401	OLD	Religious Education
390501	OLD	Religious Music
		Music history courses on such topics as the Mass, Missa Brevis, Requiem, Sacred Chorales, etc. are classified 500906. Music literature courses referring to sacred forms are classified 500905.
390601	MOD	Theological Studies, Apologetics, Eschatology, Homiletics, Liturgy, Sacrament, Talmud, Sermons
390701	NEW	Christian Living/Activities, Christian Family, Christian Personal Testimony, etc.
399999	OLD	Theology: Other

PHYSICAL SCIENCES (40)

The course categories and coding in the physical sciences were fairly straightforward, and the only major debate and reconstruction took place in Physics. Of the original 28 categories across the entire spectrum of the physical sciences, 9 did not require any recoding whatsoever (i.e. the prima facie evidence of error was less than 10%). And outside of Chemistry and Physics, the only categories that required heavy recoding work were Geology, Oceanography, and Earth Sciences, and all the "99" ("Other") codes.

In Chemistry, the external faculty rating team made minor adjustments. To the sevn existing codes, they added but four, and two of these were designed to sort out service courses from General Chemistry.

The case in Physics was somewhat different. Here there was a conscious attempt to distinguish upper-division treatments of major topics, e.g. Mechanics or Electricity & Magnetism, from their treatments in introductory physics courses, as well as to consolidate the various atomic/nuclear physics titles.

CIP Code		
400101	OLD	Physical Sciences: General, Introduction
400201	MOD	Astronomy, Celestial Mechanics, Cosmology
400301	OLD	Astrophysics, Space Science, Solar Physics
400401	OLD	Atmospheric Sciences, Meteorology

CHEMISTRY (4005)

400501	OLD	General Chemistry, College Chemistry, Introduction to Chemistry Titles including Intro Chemistry "and" Qualitative or Quantitative Analysis were classified here, not in 400502.
400502	MOD	Analytical Chemistry, Instrumental Analysis, Chemical Measurements
400503	OLD	Inorganic Chemistry
400504	OLD	Organic Chemistry
400505	OLD	Pharmaceutical Chemistry This is basically a service course.
400506	OLD	Physical Chemistry
400509	NEW	Other Determinable Topics in Chemistry These included Chemical Literature, Environmental Chemistry, Macroscopic Chem, Radiochemistry, and Agricultural Chemistry. It might be possible to split the Chemical Literature titles off, as those courses are often staples of the Chemistry major.
400510	NEW	Research, Independent Study in Chemistry In most other fields of the CIP, the "research" and "independent study" titles are lumped with the "Other" (99) code categories. The faculty rating team here (like that in Psychology) urged a separate category.
400520	NEW	Applied Chemistry, Liberal Arts Chemistry

CIP Code		
		This category, like 260802 in Biological Sciences, was created to split off the unquestionably "babified" versions of the introductory course in the field.
400530	NEW	Chemistry for Nurses/Allied Health/Life Sciences (service course)
400599	OLD	Chemistry: Indeterminable
		GEOLOGY/EARTH SCIENCES (4006 and 4007)
400601	MOD	Geology: Introductory, General
		We included titles in stratigraphy and sedimentation here unless they were explicitly linked to paleontology (400604), as well as general titles in geomorphology (unless explicitly linked to mineralogy or petrology.
400602	OLD	Geochemistry
400603	OLD	Geophysics and Seismology
400604	OLD	Paleontology
		Some (but surprisingly few) of the titles originally classified here belonged in Archaeology (450301).
400605	NEW	Mineralogy and Petrology
		These two topics were sometimes yoked in the course title and sometimes not. We decided that a single category for both was appropriate.
400699	OLD	Geological Sciences: Other
		All the field geology titles were placed here, but there were not enough to justify a separate category.
400701	OLD	Metallurgy
400702	OLD	Oceanography
400703	OLD	Earth Science, Earth History, Earth Materials, Earth PHysics, Earth Processes, Earth Science-Evolution

CIP Code

400799 OLD Miscellaneous Physical Sciences: Other

PHYSICS (4008)

400801 MOD Physics: General, Introduction

Course titles for General Physics often consist of sets of topics, e.g. "Waves, Optics, Heat, Electricity," or single topics, e.g. "Physics II: Electricity and Magnetism." Titles such as these were assigned to 400801. One of the most difficult tasks for an external faculty rating team was to sort out intermediate and advanced courses in the same areas from those presented in the introductory course. We discuss the decision rules in those cases below (see 400810, 400811, 400813)

400802 MOD Atomic/Molecular Physics, Nuclear Physics, Particle Physics, Radiation Physics, Reactor Physics

This category was expanded to catch titles from codes that had been deleted from the CIP system in 1985, hence had already been used in the 1984 coding. The external faculty rating team decided against reinstating those categories (e.g. Particle Physics) as distinct entities, and for merging 400806 with these and related titles.

400806 DEL Nuclear Physics

See commentary to 400802.

400807 OLD Optics

"Holography" would be placed here unless the student's major was in Fine Arts or Film Arts.

400808 DEL Solid State Physics

Did not meet threshold rule.

400809 NEW Acoustics, Physics of Music

This is often a service course for music and music education majors.

CIP Code		
400810	NEW	Thermal Science, Thermodynamics, Advanced Thermo, Kinetic Theory Titles here are clear cases of intermediate/upper division courses in physics, not engineering. If "thermodynamics" was listed with other topics, e.g. "Mechanics and Thermodynamics," the course was classified in 400801.
400811	NEW	Electricity and Magnetism: Intermediate Course, Electrodynamics, Electrophysics To be classified here (as opposed to 400801), the title had to stand alone, and, if a course number was indicated, to be 200 or higher.
400812	NEW	Modern Physics
400813	NEW	Mechanics, Classical Mechanics, Analytical Mechanics The decision rules adopted here are like those for both 400810 and 400811.
400814	NEW	Quantum Physics/Theory/Mechanics
400899	OLD	Physics: Other
400901	OLD	Planetary Science
409999	OLD	Physical Sciences: Other, Indeterminable

SCIENCE TECHNOLOGIES (41)

The principal problem in the Science Technologies ("41" series) categories of the CIP was fairly simple. In the NLS/PETS data base, there were preciously few instances of titles in these fields, and most of what had been assigned to the 41 Series in 1984 should have been assigned elsewhere. For example, most of the titles assigned to the Biological Technologies (4101) areas belonged in Allied Health, most of those assigned to Physical Science Technologies (4103) belonged with the basic physical sciences themselves, and those assigned to the two Oceanographic Technologies codes (one for biological, the other for physical) belonged in neither.

The result is a very abbreviated section of the CIP, to wit:

CIP Code		
410101	MOD	Biological Technologies: All Originally, the category was entitled, "Biological Laboratory Technology." Depending on the student's major, some electron microscopy titles were placed here. If the major were in the Allied Health series, the microscopy titles were classified under 170311.
410102	DEL	Oceanographic (Biological) Technology Did not meet threshold criterion.
410199	DEL	Biological Technologies: Other Did not meet threshold criterion.
410201	MOD	Nuclear Technologies: All Originally, the category was entitled, "Nuclear Materials Handling Technology." We combined all valid 4102 course titles here.
410202	DEL	Nuclear Power Plant Operation Technology See comment for 410201.
410203	DEL	Nuclear Power Plant Radiation Control Technology See comment for 410201.
410204	DEL	Radiologic (Physical) Technology Nearly all the courses originally (1984) coded here belonged in "Radiologic (Medical) Technology" under Allied Health, 170209.
410299	DEL	Nuclear Technologies: Other Unnecessary code.
410301	OLD	Chemical Technology
410302	DEL	Geological Technology All course titles originally assigned here belonged elsewhere, e.g. Geology, Geological Engineering.

CIP Code

410303 OLD Metallurgical Technology

A number of titles of courses taught in proprietary vocational schools and originally classified as Metallurgical Engineering (142001) were reclassified here.

410304 DEL Meteorological Technology

All course titles originally assigned here could be reclassified as either Atmospheric Science/Meteorology or Geography.

410305 DEL Oceanographic (Physical) Technology

These titles were reclassified as Oceanography (400702).

410399 DEL Physical Science Technologies: Other

Did not meet threshold criterion.

419999 DEL Science Technologies: Other

Did not meet threshold criterion.

PSYCHOLOGY (42)

The principal task with ostensible titles dealing with human behavior and development was to establish rules that clearly distinguished psychology courses from courses in education, home economics, communications, and, for want of a better term, "personal development and awareness," i.e. personal service applied psychology.

A title such as "Interviewing Techniques" well illustrates this problem. Courses with title were originally coded under communications (09 series), clinical psychology, counseling psychology, social work (4407). Student major was the principal guide to accurate assignment of these titles. Within Psychology, the title was assigned to clinical (420201).

Words such as "behavior," "motivation," "emotion," placed a course under Psychology of Personality (421001) unless modified in ways that classified the "behavior" as explicitly abnormal.

The reader should consult the rules for Educational Psychology titles (130801) and the Applied Psychology/Personal Service series (35 and 37).

CIP Code		
420101	OLD	Psychology: General, Introduction to, Principles, Behavioral Science
420201	OLD	Clinical Psychology Covers titles in Behavior Control/Management/ Modification, Clinical/Group Therapy
420301	MOD	Cognitive Psychology, Memory, Perception, Consciousness
420401	DEL	Community Psychology (combined w/420601)
420501	DEL	Comparative Psychology Did not meet threshold criterion. Half the titles belonged in Animal Behavior (260707).
420601	MOD	Counseling Psychology, Community Psychology But "Counseling" in combination with "Guidance" in a title placed it under 131101.
420701	OLD	Developmental Psych, Child Psych, Child Study, Child Behavior, Childhood and Adolescence, Adolescent Psych, Psychology of Aging, Human Development, Principles of Development "Child Development" titles were classified under 200102. If the word, "Family," appeared in the title, as in "Human and Family Development," the course was classified under Home Economics, 190701. "Human Growth and Development" titles were usually classified under the Biology service courses, 260805.
420801	MOD	Experimental Psych, Research Methods, Research Design
420901	OLD	Industrial Psychology, Organizational Psychology. But "Managerial Psychology" and "Organizational Processes" titles were placed under 061501 in the Business Administration series.
421001	MOD	Personality Psychology Includes a host of titles, e.g. Motivation, Emotion, Aggression, Dreams, Human Behavior, Psychology of Adjustment, Analysis of Behavior,

CIP Code		
		Personality Development/Dynamics/Theory
421002	NEW	Abnormal Psychology, Psychology of Deviance Disorganized Personality, Behavioral Pathology, Mental Retardation
421003	NEW	Human Sexuality, Human Sexual Behavior
		As distinguished from "sexual relations" under 350102.
421101	MOD	Physiological Psych, Biopsychology, Psychobiology Biological Bases of Behavior, Sensation
421201	OLD	Psycholinguistics, Psychology and Language
421301	OLD	Psychometrics, Psychological Testing
421401	OLD	Psychopharmacology, Drugs and Behavior
421501	OLD	Quantitative Psychology, Psychological Statistics
421601	MOD	Social Psychology, Environmental Psychology
		Covers titles such as Mass Behavior, Group Interaction, Group Dynamics. "Collective Behavior," however, is usually a Sociology course, and has its own code, 451106. "Applied Psychology," and Interpersonal/Human Relations courses are personal service, and were coded 350101.
422001	NEW	History of Psychology, Philosophy of Psychology
429010	NEW	Psychology Field Work, Internships
429020	NEW	Psychology Seminars, Readings, Colloquia
429999	MOD	Psychology: Missing, Indeterminable

PROTECTIVE SERVICES (43)

The 1970s saw significant amounts of financial support for students to attend college under the Law Enforcement Assistance Act. Basically, LEAA provided for the collegiate education of police officers. The number of programs in Criminal Justice mushroomed, and the range of courses offered expanded dramatically. Many of these were "Police Academy" versions of topics also offered--with different orientations--elsewhere in

the curriculum. "Community Relations" is a typical case, as it also appears under Social Work (44 series) and Human Services (1704 series). Our reconstruction of the categories and codes in this series sought to disaggregate these titles from otherwise undifferentiated masses.

430101	OLD	Correctional Administration Covers titles in Corrections Law, Corrections Systems, and, in general, the institutional and theoretical aspects of corrections and penology.
430102	MOD	Corrections: Penology, Probation/Parole Titles here focus on the operational aspects of corrections, and include Corrections Practices, Corrections Casework/Counseling/Procedures, Community-Based Corrections
430103	MOD	Administration of Justice, Courts, Court Administration Titles here refer to the operations of the judicial system in general, not the criminal justice system in particular (see 430104). They are not courses in the Judiciary (451003), and are not taught in law schools.
430104	OLD	Criminal Justice Studies, Criminal Justice, Law Enforcement and Criminal Justice
430105	MOD	Criminalistics, Evidence, Criminal Investigation, Testimony, Criminal Identification, Search & Seizure
430106	OLD	Forensic Studies, Forensic Chemistry/Biology, Forensic Medicine/Science, Crime Lab
430107	MOD	Law Enforcement: General Police Training, Police Academy, Crime Prevention and Control, Patrol Procedures and Operations, Firearms, Defensive Tactics, Law Enforcement Techniques, Introduction to Law Enforcement These are the basic Police Academy curriculum titles with the exception of those dealing with administration (see 430108).
430108	OLD	Law Enforcement Administration, Police Admin.

CIP Code		
430109	OLD	Security Services
430110	NEW	Internships, Field Experience
430120	NEW	Criminal Law & Procedure for Police, Law of Evidence, Legal Aspects of Criminal Justice, Criminal Codes [usually the state is named] **Both student majors and institutional type are keys to coding these titles. If taught in a law school at the post-baccalaureate level, a title such as "Criminal Procedure" does not belong here, rather in 220101.**
430130	NEW	Police/Community Relations
430140	NEW	Traffic Law/Control/Management, Vehicle Codes, Traffic Operations, Traffic Accidents/Investigs. "Traffic," not "transport."
430150	NEW	Juvenile Justice/Delinquency/Crime/Procedures, Youthful Offender, Youth Crime **Unless there was a compelling reason to do so, these titles were not coded under 450401, Criminology.**
430160	NEW	Narcotics, Drug Enforcement
430199	OLD	Criminal Justice: Other
430201	OLD	Fire Control and Safety Technology
430202	OLD	Fire Protection Administration
430203	OLD	Firefighting
430299	OLD	Fire Protection: Other
439999	OLD	Protective Services: Missing, etc.

PUBLIC AFFAIRS (44)

This section of the CIP covers both Public Administration and Social Work. In the former, many titles containing the word, "management," were originally coded under Business Administration (06). Our guideline was that a reference to the management of

nonprofit, public-sector institutions and organizations placed the title in this series.

The Social Work titles required some minor disaggregation so as to reflect more accurately the type of courses taken by students in the Social Work/Welfare field.

440101	DEL	Public Affairs: General No viable cases, i.e. the small number of courses originally coded here all belonged somewhere else.
440201	MOD	Community Services/Organization/Resources
440301	MOD	International Organizations, Int'l Service
440401	MOD	Public Administration/Management Also covers titles in PA programs such as Administrative Procedures in Government, Government Regulations, Budgetary Process, Public Personnel Admin., Admin. Systems Analysis "Public Finance," however, was coded as an Economics course, 450651.
440501	OLD	Public Policy Studies Includes titles in Public Policy Analysis, Policy Science, Policy Formation/Process
440601	MOD	Public Works (Sanitation, Utilities, etc.), Waste Management
440602	DEL	Public Transportation (combined in 440601)
440603	DEL	Public Utilities (combined in 440601)
440699	DEL	Public Works, Other (combined in 440601)
440701	OLD	Social Work: General Covers titles in Child Welfare and Intervention Strategies, for example, but not titles referring to schools or interviewing.
440702	OLD	Medical Social Work
440703	NEW	Social Welfare
440710	NEW	Social Work Practicums, Field

CIP Code		
440720	NEW	Research in Social Work/Welfare
440799	OLD	Social Work: Other, Unknown
449999	OLD	Public Affairs: Other
450101	OLD	Social Sciences: General, Survey Also covers titles such as "Current Affairs."

ANTHROPOLOGY (4502)

This was originally a unitary field code. The titles were fairly easy to disaggregate, i.e. the sub-categories created themselves from the titles.

450201	MOD	Anthropology: General, Introduction, Human Origins, Ascent of Man, Ancient Cultures, Peoples of the World, Culture and Personality
450202	NEW	Cultural Anthropology, Ethnology, Folklore, Comparative Cultures, Anthropology of Religion, Magic, Ritual
450203	NEW	Physical/Biolog/Medical Anthro, Human Osteology, Biology of Race
450204	NEW	Non-Western Peoples & Cultures
450205	NEW	Native Amer. (North, South, Meso) Peoples/Cultures
450206	NEW	Language, Linguistics & Culture
450210	NEW	Anthropology: Readings, Research, etc.
450299	OLD	Anthropology: Other, Unknown
450301	OLD	Archaeology
450302	DEL	Archaeological Technology. No cases.
450401	OLD	Criminology, Crime & Delinquency, Criminal Behavior, Crime in America These are not Administration of Justice (43 series) titles. Student major and pattern

of other coursework is usually the key to assignment.

450501 OLD Demography, Population Dynamics/Analysis/Growth

ECONOMICS (4506)

Not all course titles including the word "economics" belong in economics. Titles in Business/Managerial Economics, for the most **obvious example,** have their own code (060501) under Business; **those in** Engineering Economics have their own code (140702) **related to** Industrial Engineering.

In the original CIP system, there was only one code for the **entire field of** economics. In disaggregating the field, we used **four broad categories:** Core Economics courses (450610-450642), **Advanced** Economic Analysis courses (45065 series), Institutional/ Historical courses (45066 series), and Other courses.

450601 MOD Economy & Society, Economic Problems/Issues, Contemporary Economics, the Economic System, World Economics, Economics for Teachers

Courses with these titles were treated as "pre-disciplinary," i.e. as something less than the traditional introduction to the methods, terms, and major concepts of the field. "Consumer Economics" is usually 190402, not here.

450610 NEW Economics: Principles, Introduction, Principles & Problems, Basic Economic Theory/Analysis, Fundamentals, Political Economy, Macroeconomics, Microeconomics

Many introductory-level economics courses are divided into two terms, Micro and Macro. These were not to be confused with intermediate level theory courses in Micro and Macroeconomics that are usually required of all Economics majors. Our decision rule was that unless the words "intermediate" or "theory" or "analysis" appeared in a title referring to Micro or Macro, the course was classified here.

450620 NEW Intermediate Microeconomics, Microeconomic Theory, Microeconomic Analysis, Price Theory, Theory of Demand/Cost, Theory of the Firm, Economic Analysis of the Firm, Production Economics/Prices

CIP Code		
		See comments on 450610.
450630	NEW	Intermediate Macroeconomics, Aggregate Economic Analysis, Income and Employment, Growth Theory, Macroeconomic Theory/Analysis, Income Analysis/ Policy, Income and Business Cycles, Business Fluctuations, National Income
		See comments on 450610.
450641	NEW	Economic Statistics, Economic and Business Stats, Introduction to Quantitative Economics
450642	NEW	Econometrics, Forecasting, Forecasting & Business Cycles
450651	NEW	Public Finance, Economics of Government, Econ of Public Sector, Budgetary Process/Controls, State and Local Government Finance
450652	NEW	International Trade/Finance/Economics, International Monetary Economics, Foreign Exchange
450653	NEW	Monetary Theory, Fiscal Policy, Stabilization Policy
450654	NEW	Environmental & Natural Resource Economics, Economics of Environment, Rural/Regional/Urban Economics, Economy of Cities
450655	NEW	Labor and Human Resource Economics, Manpower Economics, Manpower Development, Trade Unions and Labor Market, Welfare and Social Security, Wage Theory and Determination
450657	NEW	Money & Banking, Money & Capital Markets
450661	NEW	History of Economic Thought/Doctrines
450662	NEW	Comparative Economic Systems
450663	NEW	Economic Development, 3rd World Economics, Economic Growth in Less Developed Counties, Problems of Underdevelopment
450679	NEW	Economics: Other Determinable Topics
450699	NEW	Economics: Missing, Indeterminable

CIP Code

GEOGRAPHY (4507)

As in the case of Anthropology, this field formerly had only one code, but the titles were clear enough to disaggregate themselves.

450701	MOD	Geography: General; Introduction; Combined Topics
450702	NEW	Remote Sensing, Analytic Cartography, Field Mapping
450703	NEW	Cultural Geography
450704	NEW	Physical Geography
450705	NEW	Economic Geography
450706	NEW	Urban Geography
450710	NEW	Geography of North America/Anglo-America
450720	NEW	Geography of Europe, USSR
450730	NEW	Geography of Africa, Near East
450740	NEW	Geography of Asia, Pacific
450750	NEW	Geography of Latin America, Carribean
450799	NEW	Geography: Other

HISTORY (4508)

Originally a unitary field code, History presented a major challenge for disaggregation. We decided on four sub-series: general titles and topics that cut across nations, continents, and periods; a set of U.S. history titles; a set of European history titles; and a set of non-Western history topics. The U.S. and European history series rely on dates dividing periods, and rules had to be established for sorting courses on one side or another of the dateline. It may sound trite, but the criterion selected was "majority of years." Thus, a course in 18th Century European History crosses the dateline of 1789, but is classified as 450822. A trickier title would be "The Ante-Bellum South, Civil War, and After," but common sense would classify the course under "Topics in U.S. History to 1860" (450811).

CIP Code

In the European series, if a specific country is identified in the course title, that fact takes precedence over the period of history indicated. Hence, "English History, 1485-1714," is classified under "History of Individual Countries" (450826), not "European History: Renaissance to 1789."

Needless to say, there were thousands of titles in the data base with the word "history" that did not belong under History (4508). These include Natural History (260614), the various Art History titles (5007 series), Music History (5009 series), etc. "U.S. Constitutional History" was coded under Political Science, 451003.

450801	MOD	World History/Western Civilization, Modern World
450802	NEW	Ancient History, Classical History, Pre-History, Ancient Greece/Rome/Middle East
450803	NEW	Intellectual/Cultural History: General, Non-U.S.
450804	NEW	Economic/Business History (country unspecified)
450805	NEW	History of Religion/Church History
450808	NEW	Historiography, Research Methods
450809	NEW	History of Science, History of Technology
		This category also included courses in the history of particular sciences and/or technologies.
450810	NEW	U.S. History Surveys
		The titles here are recognizable either as broad coverages ("The Evolution of the U.S.") or as segments ("U.S. from 1620 to 1860") of a survey.
450811	NEW	Topics in U.S. History Through the Civil War, Colonial Society, Revolution and Constitution, National Period, the Age of Jackson, etc.
		All Civil War titles were placed here.
450812	NEW	Topics in U.S. History Since the Civil War, the Gilded Age, the Depression, etc.
450815	NEW	U.S. Cultural, Intellectual History

CIP Code		
450816	NEW	History of Individual States, Regions (e.g. the South, Frontier)
450817	NEW	Afro-American History
450819	NEW	U.S. History: Other
		What tends to fall in this category are titles in Military, Diplomatic, and Social History that do not refer to a time period. "Crises in U.S. Diplomacy, 1898-1939" would go in 450812, but without the dates, it would be placed here.
450821	NEW	European History: Dark & Middle Ages
450822	NEW	European History: Renaissance to 1789
450823	NEW	European History since 1789
450826	NEW	History of Individual Countries
		See comments in the introduction to this section.
450829	NEW	European History: Other, General
450831	NEW	Asian History
450832	NEW	African History
450833	NEW	Latin American History
430839	NEW	History of Other World Regions, e.g. Oceana, Modern Middle East
450899	NEW	History: Other, Unknown
450901	MOD	International Relations/Conflict/Communications
		"International Law" taught in a law school was classified under 220101; taught elsewhere, it was classified as 220199. U.S. Foreign Relations/ Diplomacy courses were coded 451012.

POLITICAL SCIENCE (4510)

The principal reference point for the initial disaggregation of political science (formerly with only one code) was the set of test specifications for the Graduate Record field examination.

CIP Code

The external faculty reviewers recommended finer distinctions in U.S. government and at least one category to cover political behavior. Courses concerning public opinion and propaganda, without a specifically political reference, however, were classified under Communications (090902).

451001	MOD	Political Science/Government: Introduction, Principles of, Essentials, Basic Issues of, Political Problems, Contemporary Issues/Public Affairs
451002	NEW	U.S. Government & Politics, Federal and State Government Where "Federal and State" were mentioned together, the title was classified here. If "State" stood alone or in another combination, the title went under 451011. Titles covering the Presidency and Congress were also classified here.
451003	NEW	U.S. Constitutional Law/Politics/History, Civil Rights, Civil Liberties, Judiciary If taught in law schools, these titles were classified under 220101.
451004	NEW	Political Theory/Philosophy/Ideology/Thought Courses on specific ideologies, e.g. Marxism, Authoritarian Regimes, Theory of Monarchy, etc. were all coded here.
451005	NEW	Comparative Government & Politics, Parliamentary Systems But not "Parliamentary Procedure," which we coded under Public Speaking/Debate, 231001.
451006	NEW	European Government & Politics The European context and/or countries must be named in the course title to place it here. "Parliamentary Government," for example, would be under Comparative, not European.
451007	NEW	Non-West. Government & Politics (including titles specifying Latin America, Near East, etc.), 3rd World Politics, Government in Developing Nations

CIP Code		
451008	NEW	Methodology, Research Design, Political Statistics
451009	NEW	Political Behavior/Elections/Voters, Political Parties, Pressure/Interest Groups
451011	NEW	U.S. State, Local Government & Politics, Urban/Rural Politics, County/Municipal Government
451012	NEW	U.S. Foreign Policy, Diplomacy, National Security
451080	NEW	Political Science: Other Determinable Topics
451099	NEW	Political Sciience: Indeterminable, Unknown

SOCIOLOGY (4511)

This was a difficult field to disaggregate, even when we used the subject indices of the major academic journals. Both Office of Research staff and external faculty struggled to hold the subfields to a reasonable number. Note that Demography (450501), Criminology (450401), and Urban Studies (which has a heavy sociological component) all have codes distinct from the 4511 series.

451101	MOD	Sociology: Introduction, General, Principles
451102	NEW	Social Institutions: Marriage, Family, Church, School
451103	NEW	Sociology of Race, Minorities, Ethnic Groups, Race Relations
451104	NEW	Organizational Sociology, Orgizational Processes, Complex Organizations, Formal Organizations, Organizations and Society, Bureaucracy For an "Organizational Processes" title, student major was a strong guide: an 06 major (Business/Management) placed the title under 061501.
451105	NEW	Sociology of Aging, Health, Youth, Death
451106	NEW	Social Change, Movements, Collective Behavior Crowd Behavior, Psychology of Social Movements
451107	NEW	Social Theory
451108	NEW	Comparative Sociology, Third World Sociology

CIP Code		
451109	NEW	Social Problems, Deviance, Social Disorganization
451110	NEW	Sociological Research Methods, Survey Design, Data Collection
451111	NEW	Community/Rural/Urban Sociology
451112	NEW	Social Stratification, Inequality, Poverty
451113	NEW	Small Group Sociology, Socialization, etc.
451120	NEW	Applied Sociology, Internships, etc.
451199	NEW	Sociology: Missing, Indeterminable
451201	OLD	Urban Studies, Urbanization
458001	NEW	Social Statistics Titles here are distinct from those statistics and methodology courses in specific disciplines, e.g. Quantitative Psychology (421501), Educational Statistics (13060), Content Analysis in Politics (451008), etc.
459999	OLD	Social Sciences: Missing, Indeterminable

CONSTRUCTION TRADES (46)

Some 70% of the original course categories here recorded either no cases of course taking or so few that the category could not be maintained. Instead of listing all the deleted categories, we list only those that were viable.

460101	OLD	Brickmasonry, Stone, Tile
460201	OLD	Carpentry
460301	OLD	Electric & Power Transmission Installation
460302	OLD	Electrician The category includes Wiring, Electrical Codes, but not Electrical Circuits (which are usually Engineering or Engineering Technology courses). Student major and institutional type were used to determine the assignment of titles.

CIP Code		
460401	OLD	Building & Property Maintenance
460499	MOD	Miscellaneous Construction Trades This category covers specialties such as concrete placing/finishing, drywall, floor covering installation, glazing, insulation, painting, plastering, and roofing, all of which originally had separate CIP codes.
460501	OLD	Plumbing, Pipefitting, & Steamfitting
460503	OLD	Plumbing

MECHANICS AND REPAIRERS (47)

Over half the original course categories here failed to yield a sufficient number of coursetaking cases to justify their inclusion. In fact, after examination, nearly a third of them yielded no viable cases whatsoever. As in the case of Construction Trades (46 Series), we list here only those categories and codes that were maintained. Most cases of miscoding involved failure to take student major, let alone institutional type, into account. A Computer Engineering major at the University of Illinois, for example, who took a course entitled, "Computer Trouble-Shooting," was not taking a course under 470104, "Computer Electronics Repair." On the other hand, a student at Milwaukee Area Voc/Tech who earned a certificate in "Electronics" and took a course entitled, "Computer Trouble-Shooting," was, in fact, taking a 470104 course.

470101	OLD	Electrical/Electronics Equipment Repair: General
470103	OLD	Communication Electronics Repair
470104	OLD	Computer Electronics Repair
470105	OLD	Industrial Electronics
470201	OLD	Heating, AC & Refrigeration Mechanics: General
470202	OLD	Cooling & Refrigeration
470203	OLD	Heating & Air Conditioning
470299	OLD	Heating, AC & Refrigeration Mechanics: Other

CIP Code		
470301	OLD	Industrial Equipment Maintenance & Repair
470401	MOD	Electromechanical, Hydraulic, Pneumatic Instrument Repair
470499	OLD	Miscellaneous Mechanics & Repairers: Other
		Categories here included gunsmithing, locksmith, musical instrument repair, watch repair, etc. --all of which originally had separate CIP codes.
470501	MOD	Stationary Energy Sources, Conventional Power Generation
470601	OLD	Vehicle/Mobile Equipment Mechanics: General
470602	RES	Aircraft Mechanics, Airframe, Powerplant
		Student major and institutional type are keys to the assignment of titles here, as Aeronautical Engineers take courses with abbreviated titles such as "Powerplant." Such cases should obviously be coded elsewhere, e.g., 140201 or 150801.
470603	OLD	Auto Body Repair
470604	OLD	Automotive Mechanics
470605	OLD	Diesel Engine Mechanics
470606	OLD	Small Engine Repair
470699	OLD	Vehicle etc. Mechanics: Other
479999	OLD	Mechanics & Repairers: Other

PRECISION PRODUCTION (48)

This is a strange section of the CIP system. The portions dealing with Drafting (4801) and Graphic/Printing Communications (4802) are brimming with coursetaking cases. They reflect more of what the mainstream of college students do as well as the growth of the service sectors of the economy. The other subsections of the 48 series, with the exception of Welding, are sparsely populated.

The various drafting titles (4801) are not industrial arts courses, e.g. 210103. They are usually taken as part of Engineering Technology (15 series) programs. The student's total record is the guide to assignment here.

CIP Code

One must also be careful to distinguish the commercial art, photography, lithography, etc. titles that belong here from those that belong under either Design (5004) or Fine Arts (5007). This is a case in which knowledge of particular institutions counts in coding. A "Composition and Graphics" course at Rochester Institution of Technology is a 4802 course; at Pratt Institute, it is more likely 500402.

480101	MOD	Drafting: General, Technical Drafting
480102	OLD	Architectural Drafting/Detailing/Drawing/Rendering/Delineation
480103	OLD	Civil/Structural Drafting
480104	OLD	Electrical/Electronics Drafting
480105	OLD	Mechanical Drafting
480199	OLD	Drafting: Other
480201	OLD	Graphic & Printing Communications: General
480202	DEL	Bookbinding Did not meet threshold criterion.
480203	OLD	Commercial Art, Production Art, Air Brush
480204	OLD	Commercial Photography
480205	MOD	Typesetting, Composition, Typography
480206	OLD	Lithography, Platemaking
480207	OLD	Photographic Lab & Darkroom
480208	OLD	Printing Press Operations
480209	OLD	Silk Screen Making & Printing
480210	DEL	Photoengraving No cases.
480299	OLD	Graphic & Printing Communications: Other
480301	MOD	Leatherworking & Upholstery: All

CIP Code

480302 DEL Saddlemaking and Repair

No cases.

480303 DEL Upholstering

The few courses originally coded here belonged in the Home Furnishings section of Vocational Home Economics (2005).

480304 DEL Shoe & Boot Repair

No cases.

480399 DEL Leatherworking and Upholstering: Other

Did not meet threshold criterion.

480401 DEL Precision Food Production: General

The few titles originally found here more properly belonged under 010401 (Agricultural Products and Processing). Student major and institutional type were strong clues.

480402 OLD Meatcutting

480403 DEL Slaughtering and Butchering

No cases. No comment.

480499 DEL Precision Food Production: Other

No cases.

480501 OLD Precision Metal Work: General

480502 DEL Foundry Work

Did not meet threshold criterion.

480503 OLD Machine Tool Operation/Machine Shop

480504 OLD Metal Fabrication

480505 DEL Metal Patternmaking

No cases.

480506 OLD Sheet Metal

CIP Code		
480507	OLD	Tool & Die Making
480508	OLD	Welding
		There are many titles referring to welding. Most of them belong here. There are some that refer to the theoretical and design aspects of Welding, and these should be classified under 150610.
480599	OLD	Precision Metal Work: Other
480601	DEL	Industrial Ceramics Manufacturing
		No cases.
480602	OLD	Jewelry Design/Fabrication/Repair
		Other than institutional type, there are no clues to distinguish a "jewelry design" title here from one under 500206.
480604	DEL	Plastics
		Did not meet threshold criterion.
480699	OLD	Precision Work: Assorted Materials
480701	OLD	Woodworking: General
480702	OLD	Furniture Making
480703	OLD	Millwork & Cabinet Making
480799	OLD	Woodworking: Other
489999	DEL	Precision Production: Other
		Did not meet threshold criterion.

TRANSPORTATION AND MATERIAL MOVING (49)

Half of the original categories/CIP codes in this section were deleted for lack of cases. Listed are only those that were viable.

490101	OLD	Air Transport: General, Fundamentals of Aviation, Theory of Flight

CIP Code		
490102	OLD	Airplane Piloting & Navigation, Ground School, Commercial Pilot, Advanced Aviation, Aircraft Performance, Aviation Meteorology, Instrument Flight, Sailplane Indoctrination, etc. "Aeronautics" is usually classified as 150801, not here.
490104	OLD	Aviation Management, Aviation Laws/Regs/Safety Airport Operation
490105	OLD	Air Traffic Control
490106	OLD	Flight Attendants
490107	OLD	Airplane Piloting: Private
490199	OLD	Air Transport: Other
490201	MOD	Vehicle & Equipment Operation: All This category covers titles referring to truck and bus driving, construction equipment operation, and mining equipment operation, all of which originally had their own CIP codes.
490304	OLD	Deep Water Diving
490308	OLD	Sailors & Deckhands
490399	OLD	Water Transport: Other
499999	OLD	Transportation: Other

FINE and PERFORMING ARTS (50)

Most of the recoding work was focused on either disaggregation of general categories such as Art History and Music History, or on distinguishing performance from production courses in Dance and Theatre. And while many "Film Studies" courses are taught in literature departments, unless "literature" was specifically referenced in the title, the course was classified in the 5006 series (otherwise the course would be 239004).

500101	OLD	Visual & Performing Arts: General, Survey Also covers titles such as "Art Forms," "Experiencing Arts," and combinations such as "Art/Music." But a title such as "Interrelations of Arts" was classified as 300403.

CIP Code		
500102	NEW	Visual Communications, Visual Experience, Visual Analysis/Thinking/Research This was one of 19 course titles for which we conducted an extensive catalogue search, using a collection of 1977 college catalogues on microfiche. The consensus elements of the catalogue descriptions indicated a general visual semiotics course. The illustrative contexts included advertising, television, and graphics.
500201	OLD	Crafts: General
500202	OLD	Ceramics, Pottery
500204	OLD	Fiber/Textiles/Weaving, Loom But not "Textiles and Clothing" (190901), although student major and overall transcript "tone" must be used with "Clothing and Textiles" (sometimes 200103).
500205	OLD	Glass, Glassblowing
500206	OLD	Metal, Jewelry
500299	OLD	Crafts: Other
500301	MOD	Dance, Choreography, Labanotation This was a tough category, as various types of dance (ballet, jazz, modern, folk, square, ballroom, social, etc.) are also taught under Physical Education Activities (360108). We did not classify folk, square, ballroom, or social dancing titles here. We also did not include courses in ballet/jazz/modern dance carrying less than 2 credits, as they were more likely to be Phys Ed Activity courses. By ensuring that choreography, scoring, labanotation, etc. courses were coded here, we mean to emphasize the more "academic" tone of this category.
500302	NEW	History of Dance
500401	MOD	Design: General, 2D, 3D, Design and Composition
500402	MOD	Graphic Design/Arts/Lettering

CIP Code		
500403	OLD	Illustration Design, Illustration
500404	MOD	Industrial Design, Product Design, Packaging
500405	MOD	Theatre Design, Stagecraft **Includes Costuming, Make-up, Lighting, Set Design, and other related titles. "Costuming" is not a Home Economics course.**
500499	OLD	Design: Other
500501	MOD	Dramatic Arts, Acting, Directing
500502	NEW	History of Theatre, Drama Criticism
500601	OLD	Film Arts: General, Language of Film
500602	MOD	Cinematography/Film-Making/Production
500603	DEL	Film Animation The few cases here were combined with 500602.
500604	DEL	Holography No cases.
500605	OLD	Photography, Light/Colors, Black & White Photography
500606	OLD	Video
500607	NEW	History of Film, Theory, Criticism All course title referring to films of noted directors (e.g. Huston, Bergman, Eisenstein) are coded here, along with courses in film genres (mystery, romance, documentary).
500699	OLD	Film Arts: Other, Indeterminable
500701	MOD	Fine Arts: General, Theory, Principles, Foundations/Fundamentals of Art, Basic Studio Note that titles such as "Art for Children" or "Art in EC [Early Childhood]" are coded under Education, 131302.

CIP Code		
500702	DEL	Art Conservation Did not meet threshold criterion.
500703	OLD	Art History & Appreciation Includes courses in all periods, movements, artists, e.g. Dutch Mannerists, Cubism, Monet.
500704	OLD	Arts Management
500705	OLD	Drawing, Drawing and Painting, Drawing and . . . The word, "drawing," in combination with other fine arts media, placed the title here.
500706	OLD	Intermedia
500708	OLD	Painting, Watercolor, Oil
500709	OLD	Sculpture
500710	OLD	Printmaking, Intaglio
500711	NEW	Color, Color Theory
500730	NEW	Non-Western Art: Hist & Appreciation
500740	NEW	History of Architecture, Appreciation of Architecture, Architectural Criticism
500799	OLD	Fine Arts: Other
500901	MOD	Music: Ear Training, Dictation, Solfeggio, Sight-Singing, Basic Musicianship etc.
500902	MOD	Music History & Appreciation: General, Art of Listening, Concert Music/Hour, Heritage of Music, Humanities: Music, Masterpieces
500903	OLD	Music Performance, Applied Music Covers a myriad of titles, such as Band, Chorus, Orchestra, Ensemble, Chamber Players, Conducting, Class ---- [piano, woodwind, brass, strings, percussion, etc.]
500904	MOD	Music Theory, Form and Analysis, Harmony, Counterpoint, Orchestration, Arranging, Composing

CIP Code		
500905	NEW	Music Literature, Brass/Woodwind/etc. Literature
500906	NEW	Music History: Classical, Baroque, Romantic, Chamber, Symphony
500907	NEW	Music History: Opera & Musical Theatre, Musical Comedy, Broadway
500908	NEW	Music History: Jazz
500909	NEW	Music History: Pop, Rock, Folk
500910	NEW	Music History: Afro-American Music
		"Afro-American" or "Black" must be in the title. A title such as "Duke, Miles, 'Trane" is Jazz History (500908), even though all three subjects are black. "History of Motown" would be here.
500920	NEW	Non-Western Music
500999	OLD	Music: Other, Indeterminable
509999	OLD	Visual & Performing Arts: Other

OTHER (90)

901000	NEW	Cooperative Education: Field Unspecified
902000	NEW	Readings, Independent Study: Field Unspecified
903000	NEW	College/Freshman Orientation
904000	NEW	Senior Seminars, Theses: Field Unspecified
908000	NEW	Unclassifiable Titles
999999	OLD	Missing

DATA FROM THE MAP

- Percentage of Students Completing Undergraduate Courses in 1,037 Course Categories
- Percentage of Students Completing Undergraduate Courses in 103 Aggregate Course Categories
- Percentage Distribution of all Completed Courses, Graduate and Undergraduate, by Type of Institution

PERCENTAGE OF NLS/PETS STUDENTS COMPLETING UNDERGRADUATE COURSES IN EACH COURSE CATEGORY, 1972-1984

Note: Percentages are weighted; and each student carries a weight representing his/her position in the "panel" of those who participated in the NLS/PETS. The N for BAs in this table is 4,927. The N for all those who earned more than 10 credits (including the BAs) is 10,734. Because the percentages are weighted, multiplying them by the Ns will not provide an accurate population estimate.

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
*01: Agricultural Bus. & Production						
Agric. Business & Mgmt: Gen.	0.7%	1.2%	0.1%	0.6%	1.1%	0.1%
Agricultural Business	0.5	0.7	0.1	0.4	0.7	0.1
Agricultural Economics	1.8	2.7	0.8	1.3	2.1	0.5
Farm & Ranch Management	0.8	1.4	<0.1	0.7	1.2	0.1
Agric. Bus., Mgmt.,Mkt: Oth.	0.2	0.3	<0.1	0.2	0.2	0.1
Agric. Mechanics: General	0.3	0.5	<0.1	0.3	0.5	<0.1
Agric. Electrification, etc.	0.3	0.6	---	0.2	0.5	---
Agric. Mechanics	0.3	0.5	<0.1	0.2	0.4	<0.1
Agric. Power Machinery	0.4	0.7	0.1	0.3	0.6	<0.1
Agric. Struct., Equip, Facil.	0.4	0.7	---	0.3	0.5	<0.1
Agric. Soil/Water Practices	0.9	1.6	0.2	0.5	1.0	0.1
Agric. Production: General	0.2	0.3	0.1	0.2	0.3	0.1
Animal Production	0.9	1.3	0.5	0.7	1.0	0.4
Crop Production	1.2	1.8	0.5	1.0	1.7	0.3
Agric. Production: Other	0.4	0.7	0.1	0.2	0.4	0.1
Agric. Products/Process	0.5	0.6	0.4	0.3	0.4	0.2
Agric. Supplies/Services	0.1	0.1	---	0.2	0.3	---
Horse Handling & Care	0.3	0.3	0.3	0.3	0.2	0.4
Horticulture: General	1.2	1.2	1.1	0.9	1.0	0.8
Aboriculture	0.2	0.3	0.2	0.2	0.1	0.2
Ornamental Horticulture	0.6	0.5	0.8	0.6	0.3	0.8
Greenhouse Operation	0.3	0.4	0.2	0.2	0.2	0.2
Landscaping	0.7	0.8	0.5	0.5	0.6	0.4
Nursery Operation	0.3	0.4	0.1	0.2	0.2	0.3
Turf Management	0.2	0.3	0.2	0.2	0.3	0.1
Agribus/Agric. Product: Oth	0.6	0.8	0.3	0.4	0.7	0.2
02: Agricultural Sciences						
Agric. Sciences: General	1.1	1.3	0.9	0.7	0.9	0.5
Animal Sciences: General	1.8	2.4	1.0	1.4	1.9	0.8

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*These numbers refer to sections and sub-sections of the Classification of Instructional Programs, 1985 edition, as revised in this volume.

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Anim Breed, Reprod, Genetics	0.9%	1.4%	0.4%	0.6%	0.8%	0.4%
Animal Health	0.4	0.5	0.3	0.3	0.4	0.3
Animal Nutrition, Feeds	1.3	1.9	0.6	1.0	1.4	0.5
Dairy	0.6	0.8	0.3	0.4	0.7	0.2
Livestock	1.0	1.5	0.5	0.8	1.2	0.4
Poultry	0.5	0.7	0.3	0.3	0.5	0.1
Animal Sciences: Other	0.3	0.3	0.3	0.2	0.3	0.2
Food Sciences	0.9	0.7	1.1	0.6	0.5	0.7
Plant Sciences: General	1.2	1.4	0.9	0.8	1.0	0.6
Agronomy	0.7	1.0	0.3	0.5	0.8	0.2
Horticultural Science	0.4	0.4	0.4	0.3	0.3	0.4
Plant Protect/Pest Mgmt	0.3	0.5	0.1	0.3	0.5	0.1
Range Management	0.4	0.7	0.1	0.3	0.5	<0.1
Plant Sciences: Other	0.4	0.4	0.3	0.2	0.2	0.2
Soil Sciences & Conservation	2.8	4.1	1.4	2.0	2.9	0.9
Agric Sciences: Other	0.4	0.7	0.2	0.3	0.5	0.1
03: Renewable Natural Resources						
Renew Nat. Resources: Gen.	0.6	0.8	0.3	0.4	0.6	0.2
Land/Water Use, Mgmt, Conserv	0.4	0.6	0.3	0.2	0.3	0.2
Conservation: General	3.0	3.4	2.6	1.9	2.3	1.4
Resource Mgmt & Regulation	0.4	0.5	0.3	0.2	0.3	0.2
Fishing & Fisheries	0.4	0.5	0.2	0.2	0.3	0.1
Forestry Production: General	0.3	0.5	0.1	0.2	0.3	<0.1
Logging, Forest Harvesting	0.1	0.2	---	0.1	0.3	0.3
Forestry & Rel. Sci: General	1.0	1.3	0.6	0.7	1.1	0.1
Forestry Sci., Dendrology	0.8	1.2	0.2	0.5	0.9	0.1
Forest Management	0.5	1.0	<0.1	0.4	0.7	0.1
Wood Sci, Forest Mensuration	0.4	0.7	0.1	0.3	0.5	0.1
Forestry & Related Sci.: Oth	0.5	0.9	0.1	0.4	0.7	0.3
Wildlife Mgmt & Conserv.	1.2	1.7	0.5	0.7	1.1	0.3
Renewable Nat. Resour: Oth	0.6	0.9	0.3	0.4	0.5	0.2
04: Architecture						
Archit. & Envir Design: Gen	0.2	0.4	---	0.2	0.3	0.1
Architecture	1.3	1.8	0.8	1.0	1.5	0.5
City, Comm & Region. Planning	1.2	1.5	0.8	0.6	0.9	0.4
Environmental Design	1.0	1.3	0.8	0.7	0.9	0.4
Interior Design	0.9	0.2	1.6	0.7	0.2	1.3
Landscape Architecture	0.6	0.9	0.2	0.5	0.7	0.2
Urban Design	0.4	0.5	0.4	0.2	0.3	0.2
Archit. & Envir Design, Oth	0.4	0.5	0.3	0.2	0.3	0.2

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
0501: Area Studies						
African Studies	1.1%	1.0%	1.1%	0.7%	0.7%	0.7%
American Studies, Amer. Civ.	6.5	5.9	7.2	4.7	4.6	4.8
Asian Studies: General	0.9	0.9	1.0	0.6	0.6	0.5
East Asian Studies	1.2	1.0	1.4	0.7	0.7	0.7
East European Studies	0.1	0.1	0.2	0.1	<0.1	0.1
European Studies: General	1.3	1.4	1.1	0.8	0.9	0.6
Latin American Studies	1.7	1.6	1.8	1.0	0.9	1.1
Middle Eastern Studies	0.8	0.9	0.8	0.5	0.6	0.5
Pacific Area Studies	0.3	0.2	0.3	0.2	0.1	0.2
Russian and Slavic Studies	1.0	1.0	1.0	0.5	0.5	0.5
Scandinavian Studies	0.3	0.3	0.2	0.2	0.2	0.1
South Asian Studies	0.2	0.3	0.2	0.1	0.1	0.1
Southeast Asian Studies	0.2	0.2	0.1	0.1	0.1	0.1
Western European Studies	0.2	0.1	0.4	0.1	0.1	0.2
Canadian Studies	0.4	0.5	0.3	0.2	0.2	0.1
Area Studies: Other	0.2	0.2	0.2	0.1	0.1	0.1
0502: Ethnic Studies						
Afro-American/Black Studies	3.1	2.6	3.7	2.2	1.9	2.6
Native American Studies	2.8	2.1	3.6	1.8	1.4	2.1
Hispanic American Studies	1.3	1.1	1.5	1.0	0.9	1.2
Islamic Studies	0.2	0.2	0.2	0.1	0.1	0.1
Jewish Studies	0.9	1.2	0.7	0.5	0.6	0.4
Asian-American Studies	0.1	0.1	0.2	0.1	0.1	0.1
Ethnic Studies: Other	0.4	0.5	0.4	0.3	0.3	0.3
06: Business						
Gen. Business Principles	8.8	11.7	5.5	10.7	12.3	9.0
Business Law, Legal Envir.	19.8	27.3	11.5	15.9	20.0	11.6
Business and Government	2.7	3.8	1.4	1.5	2.2	0.8
Intro. Accounting	22.6	29.0	15.3	20.7	23.7	17.5
Tax Accounting	6.8	9.5	3.7	4.4	5.8	2.9
Account.: Advanced Topices	14.2	19.9	7.9	9.4	12.7	6.0
Finance: Princ., Corporate	16.1	22.9	8.5	9.1	13.4	4.7
Bank/Finan. Inst. Operats.	1.4	2.3	0.4	1.1	1.6	0.6
Securities and Investments	4.1	6.5	1.4	2.3	3.6	0.9
Management: Gen, Theory	19.0	26.1	11.1	13.9	18.4	9.1
Operations & Product. Mgmt.	7.6	11.5	3.2	4.3	6.8	1.7
Business Economics	1.5	2.1	0.8	0.9	1.2	0.5
Personnel Mgt./HRD	8.4	11.4	5.0	6.3	8.5	4.0
Institutional Management	0.6	0.8	0.4	0.4	0.6	0.3
Transportation Management	0.9	1.3	0.5	0.6	0.9	0.4
Insurance & Risk Management	3.9	5.9	1.7	2.3	3.6	1.0
International Management	1.3	2.2	0.4	0.7	1.1	0.2

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Labor/Industrial Relations	5.1%	7.5%	2.4%	3.2%	4.7%	1.5%
Management Information Syst.	2.6	3.5	1.6	1.6	2.1	1.2
Business Statistics	7.0	10.0	3.6	4.3	6.2	2.3
Operat. Research/Decis. Sci.	6.4	9.1	3.4	3.3	4.9	1.7
Manage. Sci./Bus. Research	1.9	2.6	1.0	1.1	1.5	0.6
Marketing Management	11.0	15.1	6.4	6.8	9.7	3.8
Marketing Research	3.9	5.5	2.2	2.1	2.9	1.3
Organizational Behavior	10.3	13.8	6.4	6.5	8.9	3.9
Real Estate	4.3	6.6	1.7	3.1	4.5	1.6
Small Business Management	1.6	2.4	0.6	1.4	2.2	0.6
Internships in Business	0.8	1.0	0.6	0.7	0.6	0.8
Personal Finance	2.9	3.8	1.9	2.0	2.5	1.4
BusAdmin: Indetermin/Missing	4.5	6.3	2.4	3.1	3.9	2.2
07: Business Support Services						
Accnt/Bookeep. Support: Gen	0.1	0.1	0.2	0.8	0.3	1.3
Comput. Accounting	0.1	---	0.1	0.3	0.1	0.4
Bookkeeping	0.1	---	0.1	0.6	0.2	1.0
Machine Billing/Office Mach.	1.2	0.8	1.7	2.7	1.2	4.2
Account/Bookkeep Supp: Oth	<0.1	---	<0.1	0.2	0.1	0.3
Banking/Related Fin Prog Sup	0.2	0.2	0.3	0.3	0.2	0.5
Banking Occupations, Other	0.2	0.2	0.2	0.2	0.3	0.2
Business Data Process.: Gen	2.8	3.8	1.7	2.5	3.0	1.9
Business Computer Operation	0.4	0.4	0.4	0.5	0.5	0.5
Bus Data Entry Equip Oper.	0.2	0.1	0.3	0.6	0.2	1.1
Business Data Programming	0.8	1.0	0.4	0.5	0.7	0.4
Office Supervis./Mgmt	1.5	1.2	1.8	2.1	1.3	3.0
Personnel & Training Progs.	0.1	0.1	<0.1	0.1	0.1	0.1
Secretarial Progs.: General	2.5	0.7	4.5	6.2	0.8	11.9
Court Reporting	0.1	---	0.1	0.2	---	0.4
Executive Secretarial	0.1	<0.1	0.1	0.3	0.1	0.6
Legal Secretarial	0.2	0.3	0.1	0.4	0.2	0.7
Medical Secretarial	0.1	0.1	0.2	1.0	0.2	1.8
Secretarial	0.2	0.1	0.4	0.9	<0.1	1.8
Stenography	1.9	0.2	3.8	5.5	0.2	11.1
Secretar. Progsrams: Other	<0.1	---	0.1	0.5	<0.1	0.9
General Office Programs	1.6	1.4	1.8	3.2	1.1	5.4
Typing, Clerk-Typist	1.8	0.9	2.9	5.7	1.9	9.7
Business Correspondence	0.5	0.5	0.4	1.0	0.5	1.6
Duplicat. Machine Operation	0.2	0.1	0.3	0.3	<0.1	0.6
General Office Clerk	0.4	0.4	0.3	1.6	0.7	2.6
Receptionist	0.1	<0.1	0.1	0.2	<0.1	0.3
Gen. Office Progs.: Other	0.4	0.4	0.5	0.8	0.3	1.3
Word Processing	0.1	0.2	<0.1	0.2	0.1	0.4
Bus. Communications/English	5.4	6.4	4.3	6.3	5.2	7.3
Bus. Support: Other	0.1	0.1	0.1	0.2	0.1	0.4

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
08: Specialized Marketing						
Fashion, Apparel Marketing	0.3%	0.1%	0.5%	0.5%	0.1%	0.8%
Fashion Modeling	<0.1	---	<0.1	0.2	<0.1	0.4
Display	0.2	0.2	0.3	0.3	0.2	0.3
Food Marketing	0.1	0.2	<0.1	0.1	0.2	0.1
Industrial Sales	0.5	0.7	0.3	0.3	0.4	0.2
International Marketing	1.0	1.4	0.5	0.5	0.8	0.3
Purchasing	0.5	0.7	0.3	0.5	0.6	0.5
Retailing	3.1	4.1	2.1	2.6	3.2	1.9
Sales	3.5	4.6	2.2	3.2	4.1	2.3
Marketing/Distrib.: General	11.3	14.9	7.1	8.0	10.6	5.1
General Marketing: Other	1.0	1.4	0.6	0.7	0.8	0.5
Hospit. & Recreat. Market.	0.3	0.5	0.1	0.2	0.4	0.1
Insurance Marketing	0.7	1.0	0.2	0.4	0.6	0.1
Transport. & Travel Market.	0.4	0.6	0.1	0.3	0.4	0.2
Tourism	0.1	0.2	<0.1	0.1	0.2	<0.1
Travel Services Marketing	0.1	0.1	0.1	0.1	<0.1	0.2
Auto Vehicles/Access Mktg.	0.1	0.1	---	0.1	0.3	---
Marketing/Distrib.: Other	0.7	0.6	0.7	0.4	0.4	0.4
09: Communications						
Communications: General	35.6	35.1	36.2	29.4	29.8	28.9
Advertising	6.7	7.8	5.5	5.0	5.9	4.0
Communic. Research/Theory	1.9	1.9	1.9	1.1	1.1	1.0
Journalism,Reporting,Editing	5.6	5.4	5.9	3.6	3.5	3.6
Public Relations	2.9	3.2	2.6	2.0	2.4	1.6
Radio/TV News Broadcasting	2.0	2.3	1.7	1.2	1.6	0.9
Radio/TV: Writ., Directing	3.5	4.2	2.8	2.3	2.8	1.7
Mass Communications	6.4	6.3	6.5	4.0	4.2	3.9
Public Opinion & Propaganda	1.2	1.3	1.1	0.7	0.7	0.6
Communic. Law, Ethics	1.6	1.6	1.5	0.8	0.9	0.8
Interpersonal Communication	8.4	8.5	8.2	6.1	6.0	6.3
Interviewing	0.4	0.6	0.2	0.3	0.4	0.3
Internships in Communication	0.9	0.7	1.0	0.5	0.4	0.6
Communicat.: Other, Missing	2.8	2.7	2.9	2.0	2.0	1.9
10: Communications Technology						
Educational Media Technology	1.6	0.8	2.4	0.8	0.5	1.1
Motion Picture Technology	0.1	0.1	0.1	0.1	0.1	0.1
Photographic Technology	0.2	0.3	0.1	0.2	0.3	0.1
Radio/TV Production Technol	1.1	1.5	0.5	0.7	1.1	0.3
Sound Recording Technol	0.3	0.5	0.2	0.2	0.4	0.1
Communic. Technols.: Other	0.3	0.4	0.2	0.2	0.3	0.1

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
11: Computer Science						
Intro. Computer Science	8.2%	11.5%	4.4%	5.6%	7.9%	3.1%
Computer Literacy	2.2	3.0	1.3	1.6	2.2	1.0
Comput Prog: Gen, Spec Lang	10.1	14.2	5.4	7.5	10.7	4.2
Algorithms, Algorith. Devel	0.8	1.3	0.1	0.5	0.9	0.1
Machine/Assembly Language	0.9	1.3	0.4	0.8	1.2	0.4
Comp Lang., Gram, Theory	0.8	1.2	0.2	0.5	0.8	0.1
Data Processg: Gen., RPG	4.6	5.9	3.2	5.8	6.5	5.0
Data/Info/File Structures	0.6	1.0	0.2	0.4	0.6	0.1
Info Systems, Data Base Syst.	1.2	1.8	0.5	0.9	1.3	0.4
Systems Analysis, Design	1.7	2.3	1.1	1.4	1.8	0.9
OS, JCL, Syst. & Software	0.5	0.9	0.1	0.5	0.7	0.2
Comput. Applications: Gen	0.6	0.8	0.3	0.4	0.5	0.2
Comput. Applic.: Sci.& Engin	0.7	1.3	0.1	0.5	0.8	0.1
Comput. Applicat.: Business	1.3	2.1	0.4	0.8	1.2	0.3
Comput. Applic.: Oth Fields	0.5	0.7	0.2	0.3	0.5	0.1
AI,Graphics, Oth Adv.Topics	0.7	1.2	0.1	0.4	0.6	0.1
Numerical Analysis/Methods	1.5	2.3	0.6	0.8	1.3	0.3
Other Comput Sci Topics	0.7	1.0	0.2	0.4	0.6	0.2
Comp.Sci: Indeterm/Missing	0.5	0.9	<0.1	0.3	0.5	0.1
12: Personal Services						
Funeral Services	---	---	---	<0.1	0.1	<0.1
Cosmetology, Barbering	0.1	0.1	0.2	0.5	0.1	0.8
Consumer/Pers. Serv.: Other	0.2	0.3	0.2	0.2	0.3	0.1
13: Education						
Education: General	8.1	4.6	12.1	4.9	3.0	6.9
Bilingual/Crosscult Educat	0.5	0.2	0.8	0.3	0.1	0.4
Curric. & Curric. Theory	2.7	1.4	4.1	1.4	0.7	2.1
Instruc. Methods & Mats.:Gen	8.8	5.1	13.1	4.5	2.7	6.3
School Administra., Ed & Law	1.1	0.9	1.3	0.6	0.5	0.7
Educational Supervision	0.4	0.4	0.5	0.2	0.2	0.3
Higher Ed Admin & Research	0.1	<0.1	0.2	0.1	<0.1	0.1
Educational Media	5.2	2.8	7.9	2.6	1.5	3.8
Evaluation and Research: Gen	1.2	0.7	1.8	0.6	0.3	1.0
Educational Statistics	0.5	0.1	0.8	0.2	0.1	0.4
Educat. Testing, Measurement	6.2	4.3	8.4	3.1	2.3	4.0
Educat. Research: Other	0.6	0.4	0.9	0.3	0.2	0.4
Educational Psychology	21.9	13.4	31.4	12.2	7.9	16.6
School Psychology	0.7	0.3	1.2	0.3	0.1	0.5
Soc., Hist., Phil. Foundat.	11.9	7.0	17.5	6.4	3.9	9.0
Special Educat.: General	5.6	1.8	9.9	3.1	1.0	5.2
Spec.Ed.: Cult. Disadvant.	0.2	0.1	0.4	0.1	<0.1	0.2
Spec.Ed: Deaf/Hear. Impaired	0.4	0.1	0.6	0.2	0.1	0.4

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Spec.Ed.: Gifted & Talented	1.7%	0.4%	3.2%	1.0%	0.2%	1.9%
Sped.Ed.: Emotionally Hand.	0.5	0.1	1.0	0.3	0.1	0.5
Sped Ed.: Mentally Handic.	2.2	0.4	4.2	1.1	0.3	2.0
Spec.Ed.: Multiple Handic.	0.4	0.1	0.6	0.2	0.1	0.4
Spec.Ed.: Physically Handic.	0.3	0.1	0.6	0.2	<0.1	0.4
Spec.Ed.: Remedial Education	0.6	---	1.3	0.3	0.2	0.6
Spec.Ed.: Learning Disabils.	1.9	0.4	3.5	0.9	0.1	1.6
Spec.Ed.: Speech Correction	1.6	0.2	3.1	0.8	0.1	1.6
Spec.Ed.: Other	2.7	0.7	4.9	1.4	0.4	2.3
Stud. Counseling, Guidance	1.5	0.8	2.3	0.8	0.5	1.2
Higher Ed. Stud. Pers. Servs	0.2	0.1	0.2	0.1	<0.1	0.1
TE: Adult and Continuing Ed	0.3	0.2	0.3	0.1	0.1	0.1
TE: Elementary Education	8.8	2.7	15.7	4.6	1.6	7.8
TE: Junior High/Middle Sch.	0.3	0.2	0.4	0.1	0.1	0.2
TE: Early Childhood/Pre-Elem	4.5	0.6	8.8	2.6	0.4	5.0
TE: Secondary Education	7.7	6.1	9.6	3.7	3.1	4.4
TE: Gen Progs: Other/Indet	1.0	0.6	1.5	0.6	0.3	0.8
TE: Agricultural Education	0.3	0.5	0.1	0.2	0.1	0.1
TE: Art Education	8.1	2.4	14.5	4.4	1.4	7.5
TE: Business/Market/Distrib	0.7	0.4	1.0	0.4	0.2	0.5
TE: Driver and Safety Educ.	1.1	1.2	0.9	0.6	0.8	0.5
TE: English Education	3.1	1.1	5.4	1.6	0.6	2.8
TE: Foreign Language Educat.	0.7	0.1	1.4	0.4	0.1	0.6
TE: Health/Nutrit. Education	7.2	4.5	10.2	3.9	2.7	5.3
TE: Home Economics Educat.	0.5	0.1	1.0	0.3	0.1	0.5
TE: Industrial Arts Educat.	0.8	0.9	0.8	0.5	0.6	0.4
TE: Mathematics Education	8.0	2.4	14.3	4.4	1.5	7.5
TE: Music Education	8.2	3.0	14.0	4.3	1.7	7.0
TE: School Phys. Ed., Coach	9.3	7.3	11.7	5.6	4.9	6.4
TE: Reading Education	9.4	3.2	16.2	4.7	1.8	7.8
TE: Science Education	5.8	2.2	9.8	3.0	1.2	4.8
TE: Social Studies Education	6.1	3.2	9.4	3.0	1.6	4.4
TE: Vocational Education	0.9	1.0	0.8	0.5	0.6	0.3
TE: Drama and Dance Educ.	1.3	0.5	2.1	0.7	0.3	1.1
TE: Lang. Arts, Childs Lit	9.9	2.9	17.8	5.5	1.7	9.5
TE: Other, Indeterminable	0.9	0.2	1.6	0.4	0.1	0.7
Teaching Eng. as 2nd Lang.	0.2	---	0.3	0.1	<0.1	0.2
Student Teach., Practicums	12.8	7.5	18.8	6.5	3.8	9.3
Educ.: Indeterm., Missing	7.1	4.2	10.4	3.9	2.5	5.3
14: Engineering						
Engineering: General	3.0	5.4	0.2	2.0	3.7	0.1
Aerospace, Aeronaut. Engin.	0.8	1.4	<0.1	0.4	0.7	<0.1
Agricultural Engineering	0.7	1.2	0.1	0.4	0.7	0.1
Architectural Engineering	0.8	1.4	0.2	0.5	0.9	0.1
Bio/Biomedical Engineering	0.4	0.7	0.1	0.2	0.3	<0.1
Chemical Engineering	1.0	1.8	0.1	0.5	0.9	<0.1

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Civil, Transport. Engineer	1.9%	3.5%	0.2%	1.1%	2.1%	0.1%
Computer Engineering	2.3	4.0	0.3	1.3	2.4	0.1
Elect, Electron, Comm. Engin	4.7	8.6	0.3	2.8	5.4	0.2
Engin. Mechans, Stat, Dynam	5.0	9.2	0.3	3.0	5.7	0.3
Engin. Physics, Appl Phys	1.6	2.6	0.5	1.4	2.3	0.4
Engineering Science	0.5	0.8	<0.1	0.2	0.4	<0.1
Envir./Envir. Health Engin.	0.6	0.9	0.2	0.3	0.5	0.1
Geolog. & Geophysical Engin	0.2	0.4	---	0.1	0.2	---
Industrial Engineering	1.1	2.0	0.1	0.8	1.4	0.1
Engin. Economics, Management	1.9	3.6	0.1	1.0	2.0	<0.1
Materials Engineering	2.8	5.0	0.3	1.6	2.9	0.2
Mech. Engin., Engin. Thermo	3.4	6.2	0.2	1.9	3.5	0.1
Metallurgical Engineering	0.2	0.4	0.1	0.2	0.3	0.1
Mining & Mineral Engineering	0.1	0.2	<0.1	0.1	0.1	<0.1
Naval Arch. & Marine Engin.	0.4	0.7	---	0.2	0.3	<0.1
Nuclear Engineering	0.4	0.7	0.1	0.2	0.3	<0.1
Ocean Engineering	0.1	0.3	---	0.1	0.2	---
Petroleum Engineering	0.1	0.3	<0.1	0.1	0.2	<0.1
Surveying/Mapping Sciences	1.2	2.0	0.2	0.8	1.5	0.1
Systems Engineering	0.6	1.1	<0.1	0.3	0.6	<0.1
Engin. Graphics/Drawing	3.1	5.5	0.3	2.6	4.7	0.3
Engin. Math & Statistics	1.2	2.2	0.1	0.7	1.3	0.1
Engineering: Other, Unknown	1.9	3.2	0.4	1.2	2.1	0.2
15: Engineering Technologies						
Arch. Design/Const. Technol	1.1	1.5	0.6	1.1	1.9	0.4
Archit. Inter. Des. Technol	0.2	0.1	0.3	0.2	0.1	0.2
Civil Technology	0.7	1.4	0.1	0.8	1.5	0.1
Drafting and Design Technol	1.0	1.8	0.1	1.1	2.1	0.2
Surveying/Mapping Technol	0.3	0.6	<0.1	0.6	1.0	0.1
Computer Technology	0.6	1.1	0.1	1.0	1.8	0.2
Electrical Technology	1.7	3.3	<0.1	2.4	4.4	0.2
Electronic Technology	2.0	3.7	0.1	2.4	4.6	0.1
Elect/Electronic Tech: Other	0.3	0.6	---	0.3	0.5	---
Electromechanical Technology	0.6	1.0	0.1	0.6	1.0	0.1
Instrumentation Technology	0.9	1.6	0.2	0.7	1.3	0.1
Heating & Cooling Technols.	0.3	0.6	0.1	0.4	0.7	<0.1
Air Pollut Control Technol	0.3	0.4	0.2	0.2	0.3	0.2
Sanitation Technology	0.2	0.2	0.1	0.1	0.2	0.1
Water & Wastewater Technol	0.6	0.9	0.2	0.4	0.8	0.1
Envir. Control Technols: Oth	0.6	1.1	0.1	0.4	0.7	<0.1
Industrial Technology	0.5	0.9	<0.1	0.6	1.1	<0.1
Manufacturing Technology	0.8	1.3	0.2	0.7	1.3	0.1
Plastic Technology	0.4	0.6	<0.1	0.2	0.4	<0.1
Welding Technology	0.4	0.7	---	0.6	1.3	<0.1
Indust. Produc. Tech: Other	0.4	0.6	0.2	0.3	0.5	0.1
Occupat/Industrial Safety	0.6	1.0	0.1	0.6	1.1	0.1

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Quality Control Technology	0.3%	0.5%	<0.1%	0.3%	0.5%	0.1%
Aeronautical Technology	0.5	0.9	<0.1	0.4	0.8	0.1
Automotive Technology	0.6	1.1	0.1	0.6	1.1	0.1
Mechanical Design Technol	0.8	1.4	---	0.7	1.2	0.1
Mechanical Technols: Other	0.4	0.8	---	0.4	0.7	<0.1
Mining Technology	<0.1	0.1	---	0.1	0.1	---
Petroleum Technology	0.1	0.1	---	<0.1	0.1	---
Construction Technology	0.8	1.3	0.2	0.8	1.5	0.1
Engineering Technol: Gen.	0.3	0.4	0.1	0.3	0.6	<0.1
Engin. Tech.: Oth, Unknown	0.5	0.9	---	0.6	1.1	<0.1
16: Foreign Languages						
African Languages	0.1	0.1	0.2	0.1	<0.1	0.2
Chinese: Intro & Intermed	0.5	0.3	0.7	0.3	0.2	0.3
Japanese: Intro & Intermed	0.3	0.2	0.4	0.2	0.2	0.3
Chinese: Advanced, Lit, etc.	0.1	0.1	0.1	<0.1	<0.1	<0.1
Japanese: Adv., Lit, etc.	0.1	---	0.1	<0.1	<0.1	0.1
Other Asiatic Languages	<0.1	---	<0.1	<0.1	<0.1	<0.1
Russian: Intro & Intermed	1.0	0.9	1.0	0.7	0.7	0.6
Other Slavic Languages	0.1	<0.1	0.1	0.1	<0.1	0.1
Russian: Advanced, Lit, etc.	0.4	0.3	0.5	0.2	0.2	0.3
German: Intro & Intermediate	9.1	9.4	8.7	5.4	5.9	5.0
Scandinavian Languages	0.3	0.2	0.4	0.2	0.1	0.2
Dutch	0.1	0.1	<0.1	<0.1	<0.1	0.1
German: Advanced, Lit., etc.	1.8	1.6	2.0	0.9	0.9	1.0
Scandanavian Langs: Advanced	0.1	<0.1	0.1	<0.1	<0.1	0.1
Germanic Languages: Other	<0.1	---	0.1	<0.1	<0.1	<0.1
Greek: Classical	1.0	1.2	0.8	0.5	0.7	0.4
Greek: Modern	0.1	<0.1	0.2	0.1	<0.1	0.1
Indic Languages	0.1	<0.1	0.1	<0.1	<0.1	<0.1
French: Intro & Intermediate	13.8	9.3	18.9	8.5	5.7	11.4
Italian: Intro & Intermed	1.9	1.7	2.2	1.2	1.0	1.4
Latin	1.3	1.3	1.3	0.7	0.8	0.7
Portuguese: Intro & Intermed	0.3	0.1	0.6	0.2	<0.1	0.4
Spanish: Intro & Intermed	17.9	15.4	20.8	12.3	10.2	14.3
French: Advanced, Lit., etc.	3.0	1.6	4.5	1.5	0.8	2.2
Italian: Adv., Lit., etc.	0.2	0.2	0.1	0.1	0.1	0.1
Portuguese: Adv., Lit, etc	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Spanish: Adv., Lit., etc.	2.8	1.7	4.0	1.6	1.0	2.3
Spanish for Native Speakers	0.2	0.2	0.1	0.2	0.2	0.1
Native American Languages	0.1	<0.1	0.2	0.1	<0.1	0.1
Arabic: Intro & Intermediate	0.2	0.2	0.1	0.1	0.1	<0.1
Hebrew: Intro & Intermediate	0.8	0.8	0.7	0.4	0.4	0.3
Arabic: Advanced, Lit., etc.	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hebrew: Advanced, Lit., etc.	0.2	0.3	---	0.1	0.1	---
Foreign Langs: Other/Indet	0.7	0.3	1.1	0.4	0.2	0.5

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
17: Allied Health						
Dental Assisting	0.2%	---	0.4%	0.3%	<0.1%	0.6%
Dental Hygiene	0.3	---	0.6	0.3	---	0.7
Dental Lab Technology	0.2	0.1	0.3	0.2	<0.1	0.5
Oral/Dental Radiology	0.1	<0.1	0.2	0.2	<0.1	0.3
Dental Services, Other	0.1	---	0.1	0.2	---	0.3
Cardiovascular Technology	0.1	0.1	0.2	0.2	0.2	0.2
Emergency Medical: Ambulance	0.2	0.1	0.3	0.3	0.3	0.3
Emergency Medical: Paramedic	0.9	0.6	1.2	0.8	0.7	0.9
Radiologic (Med) Technology	0.3	0.3	0.3	0.5	0.2	0.8
Respiratory Therapy Technol	<0.1	<0.1	---	0.1	0.1	0.1
Surgical Technology	0.1	0.1	0.1	0.1	0.1	0.1
Diagnost/Treat. Servs: Oth	0.1	0.1	<0.1	0.1	0.1	0.1
Blood Bank/Hematology Tech	0.4	0.2	0.7	0.3	0.1	0.6
Chemistry Technology	0.4	0.3	0.5	0.3	0.2	0.5
Clinical Animal Technology	<0.1	0.1	---	0.1	<0.1	0.1
Medical Laboratory Tech	0.1	0.1	0.5	0.4	0.1	0.8
Medical Technology	0.5	0.1	1.0	0.4	0.1	0.8
Microbio Tech/Applied Micros	0.5	0.4	0.6	0.5	0.3	0.7
Medical Lab Technols: Other	0.1	<0.1	0.1	0.1	<0.1	0.2
Alcohol/Drug Abuse Treatment	1.8	1.2	2.4	1.0	0.8	1.2
Community Health/Hygiene	5.1	4.2	6.1	3.9	3.4	4.5
Mental Health Assisting	0.1	<0.1	0.2	0.1	<0.1	0.2
Mental Health Technology	0.2	0.1	0.4	0.2	0.1	0.4
Rehabilitation Counseling	0.3	0.2	0.6	0.2	0.1	0.3
Population/Family Planning	0.3	0.3	0.4	0.2	0.2	0.2
Sign Lang. Interp./AMESLAN	0.7	0.1	1.3	0.6	0.1	1.0
Ment. Health/Human Servs:Oth	0.6	0.2	1.1	0.5	0.2	0.7
Medical Assisting	0.1	0.1	0.1	0.3	0.1	0.5
Medical Office Management	0.1	---	0.1	0.4	<0.1	0.7
Medical Records Technology	0.1	---	0.2	0.3	<0.1	0.6
Pharmacy Assisting	0.1	0.1	<0.1	0.1	<0.1	0.1
Allied Health Servs.: Other	0.2	0.2	0.2	0.2	0.1	0.2
Pract Nursg, Nurse Assist.	0.2	0.1	0.4	0.6	0.1	1.1
Opthalmic Servs/Technol	0.1	0.1	<0.1	0.1	0.1	0.1
Art Therapy	0.1	<0.1	0.2	0.1	<0.1	0.1
Kinesiology, Exercise Physio	4.7	4.0	5.4	2.7	2.4	3.1
Music Therapy	0.2	0.2	0.2	0.1	0.1	0.1
Occupational Therapy	0.3	---	0.7	0.2	---	0.5
Physical Therapy	0.5	0.3	0.8	0.4	0.2	0.6
Recreational Therapy	0.5	0.2	0.9	0.4	0.2	0.6
Respiratory Therapy	<0.1	---	<0.1	0.1	<0.1	0.1
Rehabil. Servs.:Other	0.8	0.3	1.4	0.5	0.2	0.8
Health Servs. & Sci.: Gen	4.0	2.5	5.7	3.6	2.4	4.8
HPER: Intro., General	3.0	3.3	2.7	1.9	2.2	1.5
Athletic Injuries/Training	1.8	2.5	1.0	1.1	1.5	0.6
Adaptive Physical Education	1.7	1.8	1.6	<0.1	0.9	0.8

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Medical Terminology	0.6%	0.5%	0.7%	0.9%	0.3%	1.6%
Allied Health: Other	0.9	0.7	1.0	0.6	0.5	0.8
18: Health Sciences						
Audiology	1.5	0.3	2.7	0.8	0.2	1.4
Speech Pathology	2.6	0.7	4.7	1.4	0.4	2.4
Speech-Lang Pathol/Audiology	1.5	0.3	2.9	0.8	0.2	1.5
Audiol & Speech Path: Other	1.1	0.3	2.0	0.5	0.2	1.0
Clinical Anatomy	0.7	0.4	1.0	0.5	0.2	0.8
Clinical/Medic. Biochemistry	0.6	0.7	0.4	0.3	0.3	0.2
Clin Microbio/Med Bacteriol	1.4	1.0	1.9	1.0	0.5	1.4
Clinical Pathology	0.5	0.4	0.5	0.3	0.2	0.3
Clinical Physiology	0.8	0.8	0.8	0.5	0.5	0.6
Clinical Health Sci: Other	0.5	0.4	0.6	0.3	0.3	0.4
Chiropractic	0.1	0.1	0.1	<0.1	0.1	<0.1
Dentistry: General	0.1	0.1	0.1	0.1	0.1	0.2
Prevent. Dent./Dent Pub Hlth	0.3	<0.1	0.5	0.3	<0.1	0.5
Endodontics	---	---	---	<0.1	---	<0.1
Oral/Maxial Facial Surgery	---	---	---	<0.1	---	<0.1
Oral Pathology	0.2	---	0.4	0.2	---	0.4
Othodontics	---	---	---	<0.1	---	<0.1
Pedodontics	---	---	---	<0.1	---	<0.1
Periodontics	0.2	---	0.4	0.2	---	0.3
Dentistry: Other	0.2	---	0.3	0.1	<0.1	0.2
Health Servs./Hospital Admin	1.0	0.8	1.2	0.6	0.4	0.8
Health Care Planning	0.4	0.3	0.6	0.3	0.2	0.4
Medical Records Admin	<0.1	---	0.1	<0.1	0.1	0.1
Health Servs Admin: Other	0.4	0.2	0.5	0.2	0.1	0.3
Medical Laboratory	0.1	0.1	0.1	0.1	0.1	<0.1
Medicine: General	0.5	0.2	0.9	0.4	0.1	0.7
Anesthesiology	0.1	<0.1	0.2	0.1	<0.1	0.2
Dermatology	0.1	0.1	<0.1	0.1	<0.1	0.1
Emergency Medicine	0.1	0.1	---	0.1	0.1	<0.1
Family Practice	0.1	0.2	<0.1	<0.1	0.1	<0.1
Immunology	1.4	0.8	2.0	0.7	0.4	1.0
Internal Medicine	0.1	---	0.2	0.1	<0.1	0.1
OBGYN	0.1	0.2	0.1	0.1	0.1	0.1
Opthamology	0.1	0.1	<0.1	<0.1	<0.1	<0.1
Orthopedic	0.1	0.1	0.1	0.1	<0.1	0.1
Pathology	0.2	0.1	0.4	0.1	0.1	0.2
Pediatrics	0.2	0.2	0.2	0.1	0.1	0.2
Physical Medicine/Rehab	0.1	<0.1	0.2	<0.1	<0.1	0.1
Preventive Medicine	0.1	0.1	0.1	0.1	0.1	0.1
Psychiatry	0.3	0.3	0.4	0.2	0.1	0.3
Neurology	0.2	0.1	0.3	0.1	0.1	0.2
Radiology	0.2	0.1	0.2	0.2	0.1	0.2
Surgery	0.3	0.3	0.3	0.2	0.1	0.2

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Hematology	0.2%	0.1%	0.2%	0.1%	0.1%	0.1%
Medicine: Other	0.5	0.4	0.5	0.3	0.3	0.4
Nursing: General	3.8	0.3	7.8	4.9	0.6	9.4
Maternal/Pediatric Nursing	1.9	0.1	4.0	2.6	0.2	5.1
Medical/Surgical Nursing	1.4	0.1	2.9	2.1	0.2	4.1
Nursing Administration	0.7	0.1	1.4	0.4	0.1	0.8
Psychiat/Mental Hth Nursing	2.1	0.1	4.4	2.3	0.2	4.5
Pub/Commun Health Nursing	2.8	1.1	4.7	1.6	0.6	2.6
Nursing: Other, Indeterm.	2.7	0.1	5.6	2.8	0.2	5.5
Optometry	0.1	0.1	<0.1	<0.1	0.1	<0.1
Osteopathic Medicine	0.1	0.1	---	<0.1	<0.1	---
Pharmacy	1.7	1.6	1.8	1.0	0.9	1.1
Podiatry	<0.1	<0.1	---	<0.1	<0.1	---
Public Health Lab Sci	0.5	0.6	0.4	0.3	0.3	0.3
Epidemiology	0.6	0.5	0.7	0.3	0.2	0.4
Pub Health Practice/Mgmt	0.4	0.4	0.4	0.3	0.3	0.3
Public Health: Other	0.3	0.1	0.4	0.2	0.1	0.3
Veterinary Medicine	0.4	0.4	0.4	0.3	0.3	0.2
Clinic, Clerkship: Unspecif.	0.5	0.4	0.6	0.5	0.4	0.6
Health Sci: Other, Indet.	0.5	0.5	0.4	0.3	0.3	0.4
19: Home Economics						
Home Economics: General	1.4	0.3	2.8	0.9	0.1	1.7
Business Home Ec/Fam Finance	1.2	0.4	2.1	0.7	0.3	1.1
HE: Family & Commun. Servs	0.2	0.1	0.3	0.1	<0.1	0.2
Family/Consumer Mgmt.: Gen	1.1	0.4	1.9	0.7	0.3	1.1
HE: Consumer Science	3.6	3.6	3.6	2.1	2.2	2.0
HE: Food Sci/Nutrit.: Gen	3.8	1.4	6.5	3.1	1.0	5.3
HE: Food & Food Sci.	0.2	1.1	3.0	1.2	0.7	1.8
Dietetics/Human Nutr. Serv.	1.2	0.2	2.3	0.8	0.1	1.5
HE: Human Nutrition	5.9	1.9	10.5	4.7	1.5	8.0
HE: Food Sci/Nutrit.: Other	0.2	0.1	0.2	0.1	0.1	0.1
HE: Human Envir/Housing: Gen	0.5	0.3	0.9	0.3	0.2	0.4
Household Equipment & Furn.	0.7	0.1	1.3	0.4	0.1	0.7
HE: Housing	0.8	0.2	1.5	0.5	0.1	0.8
HE: Indiv/Family Devel.	5.1	2.3	8.3	3.5	1.7	5.5
HE: Family Counseling	0.4	0.3	0.6	0.4	0.2	0.5
HE: Family Relations	6.0	3.1	9.3	4.0	2.1	5.9
HE: Gerontolog. Servs.	0.2	0.2	0.3	0.1	0.1	0.2
HE: Indiv/Family Dev.: Oth	0.4	0.4	0.5	0.2	0.2	0.3
Textiles & Clothing: Gen	1.6	0.2	3.3	1.3	0.2	2.5
Fashion Design	0.7	<0.1	1.5	0.7	0.1	1.4
Textile Science	1.0	0.1	2.0	0.7	0.1	1.3
Textiles & Clothing: Other	0.4	0.1	0.7	0.3	0.1	0.6
Home Economics: Oth, Indet.	0.9	0.2	1.6	0.2	0.1	0.9

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
20: Vocational Home Economics						
VHE: Consum/Homemaker: Gen.	0.2%	0.1%	0.4%	0.2%	0.1%	0.2%
VHE: Child Development/Care	7.6	1.9	14.0	5.7	1.4	10.2
VHE: Clothing & Textiles	0.9	<0.1	1.9	0.9	<0.1	1.7
VHE: Consumer Education	0.6	0.4	0.8	0.4	0.3	0.5
VHE: Family/Indiv Health	1.1	0.4	1.9	0.7	0.4	1.2
VHE: Family Liv/Parenthood	2.9	1.7	4.3	2.2	1.1	3.4
VHE: Food & Nutrition	1.1	0.2	2.2	0.8	0.2	1.4
VHE: Home Management	1.1	<0.1	2.3	0.7	0.1	1.3
VHE: Housing/Furnishings	1.1	0.2	2.2	0.8	0.1	1.4
VHE: Child Care Servs: Gen	0.4	<0.1	0.9	0.2	<0.1	0.9
VHE: Child Care Management	0.1	---	0.3	0.1	---	0.1
VHE: Child Care Servs.: Oth	0.1	<0.1	0.1	0.1	<0.1	0.1
Clothing Prod/Servs: Gen	0.6	0.1	1.1	0.4	---	0.7
Commercial Garment Construc.	0.4	0.1	0.8	0.3	<0.1	0.6
Custom Tailor/Alteration	0.3	---	0.6	0.2	---	0.4
Fashion/Fabric Coordinat.	0.2	0.1	0.3	0.3	0.1	0.4
Food Production/Mgmt/Servs	0.9	0.5	1.4	0.7	0.5	0.8
Baking	0.1	<0.1	0.1	0.2	0.2	0.1
Chef/Cook	0.1	<0.1	0.3	0.3	0.3	0.3
Food Serv & Catering	0.8	0.5	1.2	0.7	0.7	0.8
Food Product/Mgmt/Serv: Oth	0.2	0.1	0.3	0.2	0.3	0.2
Floral Design	0.3	0.3	0.4	0.3	0.2	0.4
Home/Interior Decorating	0.4	---	0.8	0.3	---	0.5
Vocat. Home Economics: Oth	0.3	0.1	0.5	0.2	0.2	0.3
21: Industrial Arts						
Industrial Arts: General	0.4	0.7	0.2	0.3	0.6	0.1
IA: Construction	0.3	0.4	0.1	0.3	0.4	0.1
IA: Drafting & Design	0.5	0.8	0.1	0.5	0.9	<0.1
IA: Electric/Electronics	0.1	0.3	---	0.7	1.2	0.1
IA: Energy, Power, Transp	0.4	0.6	0.1	0.3	0.5	0.1
IA: Bas. Graph/Mechan Draw	0.5	0.6	0.5	0.5	0.7	0.2
IA: Manufacturing/Materials	0.3	0.6	---	0.3	0.5	<0.1
22: Law						
Law (torts,contracts,etc)	6.1	8.8	2.9	4.6	6.4	2.6
Legal Assisting	0.3	0.3	0.3	0.4	0.3	0.6
Law: Other	4.1	5.4	2.5	2.8	3.7	1.7
23: English/Letters						
Literature: General/Intro	30.9	29.2	32.9	20.5	19.7	21.4
Poetry: General, Intro	3.8	2.7	5.0	2.4	1.8	3.0
Fiction: General, Intro	11.8	9.8	13.9	7.3	6.3	8.4

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Drama: General, Intro	4.0%	3.0%	5.1%	2.5%	1.9%	3.2%
Non-Fict. Prose, Biography	1.0	0.7	1.3	0.7	0.5	0.8
Classical Literature	6.3	5.4	7.3	3.4	3.1	3.7
The Bible as Literature	1.5	0.9	2.1	0.9	0.6	1.2
Compar. Lit.: European	5.7	4.8	6.7	3.0	2.5	3.6
Compar. Lit.: Non-Western	1.1	0.7	1.5	0.6	0.5	0.8
Freshman Composition	72.7	73.7	71.5	63.3	64.2	62.2
Spoken/Writ Eng, Adv Gramm	1.9	2.0	1.8	1.9	1.9	1.9
Creative Writing	7.2	6.8	7.7	4.6	4.4	4.8
Linguis.: Gen. & Sub-Fields	8.8	4.8	13.2	4.9	2.7	7.2
American Literature	23.0	20.3	26.0	13.9	12.8	1.5
Afro-American Literature	1.2	0.9	1.5	0.9	0.7	1.1
Engl. Liter.: All Periods	16.6	13.2	20.4	9.9	8.3	11.6
Shakespeare	7.1	4.5	10.0	3.8	2.5	5.3
Pub Speaking, Debate	15.7	17.5	13.6	10.9	12.0	9.7
Voice & Articulation	2.6	1.6	3.8	1.8	1.2	2.3
Tech and Business Writing	7.7	10.3	4.8	6.4	8.2	4.5
English as a Second Language	0.3	0.4	0.1	0.2	0.2	0.2
Criticism, Literary History	2.0	1.7	2.4	1.0	0.9	1.1
Remedial English: General	9.7	10.0	9.4	13.1	12.9	13.4
Basic Reading, Reading Impr	5.7	5.3	6.3	7.1	6.8	7.5
Remedial/Basic Speech	2.8	2.6	2.9	2.0	2.0	2.0
Other Determ Lit. Topics	6.0	5.3	6.7	3.7	3.3	4.2
Science Fiction, Fantasy	1.7	1.8	1.5	1.1	1.3	0.8
Folklore, Mythology (Gen.)	2.1	1.4	2.9	1.1	0.8	1.4
Lit. & Film/Film as Lit	1.0	0.9	1.1	0.5	0.5	0.6
Letters: Missing, Indeterm	10.5	9.9	11.1	8.7	8.1	9.3
24: Liberal/General Studies						
Liberal Arts & Sciences	1.6	1.7	1.4	0.9	1.0	0.7
General Studies	1.0	0.8	1.2	0.8	0.7	1.0
25: Library Science						
Library/Archival Sci.: Gen	0.6	0.5	0.7	0.6	0.5	0.8
Archival Science	0.1	0.2	0.1	0.1	0.1	0.1
Library Science	1.7	1.4	2.1	1.1	1.0	1.2
Museology	0.3	0.1	0.4	0.1	0.1	0.2
Library/Archival Sci.: Other	0.1	0.1	0.1	0.1	0.1	0.1
26: Biological Sciences						
Biology: General	46.7	43.8	50.0	34.6	33.2	36.1
Human Biology	3.2	2.7	3.8	2.7	1.8	3.5
Biochemistry	7.3	7.9	6.5	3.8	4.2	3.5
Biophysics	0.3	0.6	0.1	0.2	0.3	0.1
Botany: General	8.9	9.8	7.9	5.9	6.7	5.0

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Plant Pathology	0.7%	0.9%	0.4%	0.4%	0.5%	0.3%
Plant Physiology	1.5	2.0	0.9	0.7	1.1	0.4
Plant Morphology	0.4	0.5	0.3	0.2	0.3	0.1
Plant Taxonomy/Systematics	1.4	1.5	1.2	0.8	1.0	0.6
Botany: Other	1.3	1.5	1.1	0.8	0.8	0.8
Cell Biology	4.5	5.2	3.7	2.4	2.8	2.0
Molecular Biology	1.1	1.4	0.7	0.5	0.7	0.4
Microbiology	11.0	9.1	13.1	8.1	5.6	10.7
Bacteriology	2.3	2.0	2.6	1.3	1.0	1.6
Anatomy: Plant & Animal	7.5	7.1	8.0	4.8	4.2	5.4
Biometrics, Biostatistics	1.1	1.2	1.1	0.6	0.6	0.5
Ecology	9.4	11.2	7.5	5.4	6.7	4.0
Embryology, Development Bio	3.8	4.7	2.7	1.9	2.4	1.4
Endocrinology	0.6	0.8	0.5	0.3	0.4	0.3
Histology	1.4	1.7	1.0	1.0	1.1	0.9
Aquatic/Marine Bio, Limnol.	1.7	2.4	1.0	1.0	1.4	6.4
Neurosciences	0.7	0.6	0.9	0.3	0.3	0.4
Parasitology	1.6	1.8	1.3	0.9	1.0	0.8
Toxicology	0.6	0.9	0.2	0.3	0.5	0.1
Evolution	3.2	2.7	3.8	1.6	1.4	1.9
Field Biol/Botany/Nat Hist	1.7	1.9	1.6	1.0	1.1	0.8
Genetics: Hum, Anim, Plnt	10.5	11.8	9.2	5.6	6.4	4.7
Misc. Spec Life Sci: Other	1.4	1.3	1.4	0.8	0.8	0.8
Zoology: General	12.8	14.1	11.4	8.2	9.3	7.0
Entomology	2.0	2.2	1.8	1.2	1.3	1.0
Pathology: Human & Animal	0.9	0.9	1.0	0.6	0.5	0.6
Pharmacology: Human & Animal	2.1	1.5	2.8	1.7	0.9	2.6
Physiology: Human & Animal	10.3	9.1	11.6	6.1	5.6	6.6
Animal Behavior, Ethology	1.8	1.7	1.9	0.9	0.8	0.9
Ornithology	0.6	0.5	0.7	0.3	0.3	0.3
Zoology: Other	1.6	2.1	1.1	1.0	1.2	0.7
Anat & Physio/Applied Anat	8.2	4.9	11.9	8.6	3.8	13.6
Plants & Envir/Civilization	1.0	1.0	1.0	0.6	0.6	0.6
Pathophysiology/Intro Disease	0.7	0.3	1.2	0.6	0.2	0.9
Organic Biochem/Physiol Chem	1.2	0.8	1.8	0.8	0.5	1.2
Human Growth & Develop [Bio]	4.6	2.8	6.5	3.5	2.1	5.1
Life Sci: Missing, Indeterm	5.2	5.6	4.7	3.1	3.3	2.8
27: Mathematics						
Pre-Collegiate Math: General	14.5	12.1	17.2	12.6	11.6	13.6
Arithmetic	1.8	1.0	2.8	2.0	1.5	2.6
Pre-Colleg. Algebra	8.3	9.4	7.2	10.3	12.0	8.4
Plane Geometry	1.5	1.5	1.5	1.3	1.6	0.9
Developmental Math: Other	3.1	2.6	3.6	2.8	2.5	3.0
Liber Arts Math/Int Col Math	9.9	9.1	10.9	8.1	7.8	8.5
Finite/Discrete Math	6.1	7.1	4.9	4.1	5.0	3.1
College Algebra	18.4	22.2	14.1	15.1	19.6	10.3

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Pre-Calculus, Analyt. Geom	8.2%	9.7%	6.6%	5.7%	7.3%	4.0%
Statistics, Probability	23.1	26.6	19.1	13.7	16.4	10.9
Calculus, Different Equat	30.4	41.4	18.0	18.9	27.0	10.5
Calculus for Life Sci, Econ	3.3	4.5	1.8	1.9	2.8	0.9
Advanced College Math Topics	5.1	6.3	3.8	2.7	3.5	1.8
Technical/Vocational Math	1.2	1.8	0.6	3.5	5.4	1.6
Business Math: Pre-College	2.2	2.1	2.3	5.8	4.2	7.5
Business Math: Collegiate	3.8	4.9	2.5	3.1	3.9	2.3
Number Systems/Structures	1.2	0.5	2.0	0.7	0.3	1.1
Math: Missing, Indeterm	7.9	8.9	6.8	6.6	8.0	5.1
28 and 29: Military Science/Technol						
Air Force Science	1.2	2.1	0.2	0.8	1.3	0.2
Coast Guard Science	---	---	---	<0.1	<1.0	---
Military Sci (Army)	1.9	3.1	0.5	1.2	2.0	0.3
Naval Science (Navy, Marines)	1.0	1.8	0.1	0.5	0.9	0.1
Military Science: Other	0.9	1.5	0.1	0.5	1.0	0.1
Military Technologies	0.2	0.4	---	0.1	0.2	---
30: Multi/Interdisciplinary						
Gen. Science, Nat. Sci.	4.4	4.0	4.8	3.3	2.9	3.6
Gen. Laboratory, Instrum.	0.3	0.3	0.3	0.2	0.2	0.1
Intro. Technol., Appl Sci.	0.6	0.9	0.2	0.4	0.8	0.1
Clinical Pastoral Care	0.2	0.4	0.1	0.2	0.3	<0.1
Humanities: General	10.7	10.5	10.9	7.7	7.7	7.7
Humanities & Social Sci	1.7	1.9	1.6	1.1	1.2	1.0
Humanities & Arts	1.4	1.1	1.8	1.1	1.0	1.2
Popular Culture	0.9	0.9	0.9	0.6	0.6	0.7
Peace Studs, Conflict Resol.	1.1	1.4	0.8	0.7	0.8	0.5
Women's Studies	6.0	1.6	11.0	3.5	0.9	6.2
Future Studies, Futuristics	0.7	0.7	0.7	0.4	0.4	0.4
Sci, Technol, & Society	4.2	4.4	4.0	2.5	2.7	2.2
Environmental Studies/Sci	7.5	8.3	6.7	4.8	5.5	4.0
Sports/Leisure Studies	2.0	2.2	1.8	1.1	1.2	1.0
Interdisc. Studies: Other	2.2	2.3	2.1	1.3	1.5	1.2
31: Recreation						
Recreation/Parks: General	1.2	1.3	1.1	0.8	1.0	0.6
Outdoor Recreat, Camp Counsel	2.4	2.4	2.4	1.6	1.7	1.5
Parks/Recreation Managemt	1.4	1.7	1.1	1.0	1.2	0.9
Water Recreation/Safety	0.3	0.3	0.3	0.2	0.2	0.2
Sports Officiating, Referee	1.5	2.0	0.9	1.2	1.7	0.6
Recreat. Leadership/Supervis.	0.5	0.4	0.7	0.4	0.2	0.5
Recreat. Practicum/Fld Exper	0.6	0.6	0.6	0.4	0.4	0.4
Recreat./Parks: Other	0.9	1.3	0.5	0.5	0.7	0.2

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
32: Basic Skills						
Basic Skills: General	0.3%	0.2%	0.5%	0.3%	0.3%	0.3%
Academic/Intellect. Skills	1.9	2.0	1.9	2.0	2.0	2.1
Job Seeking/Changing Skills	1.1	0.8	1.3	1.7	1.3	2.2
Career Exploration/Orient	0.4	0.3	0.5	0.4	0.4	0.4
Typing as Basic Skill	1.7	1.5	1.9	1.2	1.0	1.5
34: Health-Related Activities						
Health/Phys. Practices: Gen	16.1	13.8	18.7	13.9	12.6	15.3
Sex/Birth-Relat Health Pract	1.0	1.0	0.9	0.7	0.7	0.7
Mental Hygiene	1.4	0.8	2.1	0.8	0.5	1.2
Aerobics, Jogging, Condit,	12.0	13.4	10.3	9.8	11.2	8.3
First Aid, Life-Saving, etc.	12.0	11.7	12.3	9.4	9.4	9.4
Drug/Alcohol Abuse Prevent.	1.9	1.5	2.3	1.1	0.9	1.3
Adapted Physical Education	0.4	0.5	0.4	0.3	0.3	0.2
35: Interpersonal Skills						
Interpers Skills, Appl Psych	3.9	3.2	4.6	4.8	4.4	5.2
Relations: Love, Sex, Job	1.7	1.2	2.2	1.2	0.8	1.6
Assertiveness, Leadership	0.8	1.0	0.6	0.6	0.7	0.5
36: Leisure and Recreational Activities						
Leisure & Recreat Activs: Gen	1.8	1.8	1.9	1.4	1.4	1.4
Leisure & Recreat. Crafts	0.6	0.2	1.0	0.4	0.2	0.6
Games	1.3	1.2	1.5	1.2	1.1	1.2
Physical Educat Activities	66.5	65.2	67.9	53.4	53.8	53.0
Self-Defense, Karate, Judo	3.7	4.0	3.4	3.1	3.3	2.8
Equestrian Activities	0.9	0.4	1.4	0.7	0.3	1.1
Yoga	1.0	0.5	1.6	0.8	0.3	1.3
Scuba/Skin Diving	1.6	2.1	0.9	1.2	1.7	0.6
Fishing, Fly-Casting	0.4	0.8	<0.1	0.2	0.4	0.1
Riflery,Pistol (Non-Military)	0.5	0.6	0.3	0.4	0.5	0.2
Varsity Ath.: Major Sports	1.4	2.2	0.5	1.1	1.7	0.4
Varsity Ath.: Minor Sports	1.4	2.0	0.7	1.1	1.7	0.5
Recreat/Leisure Activs: Oth	0.9	<0.1	1.0	0.6	0.6	0.6
37: Personal Awareness						
Self-Awareness, Human Potent	2.3	2.1	2.5	2.8	2.3	3.4
Coping Skills	0.6	0.6	0.7	0.5	0.4	0.5
Personal Decision-Making	0.5	0.3	0.7	0.4	0.3	0.4
Pers. Appearance, Charm, etc.	1.2	0.3	2.3	1.7	0.2	3.2
Personal Values	0.3	0.2	0.4	0.2	0.2	0.2

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
3801: Philosophy						
Intro. Phil, Phil Problems	22.8%	24.7%	20.6%	15.2%	16.9%	13.4%
Ethics, Moral Philosophy	10.5	11.0	9.8	6.6	7.0	6.0
Logic, Formal Reasoning	12.5	14.6	10.1	7.6	9.4	5.7
Aesthetics, Phil. of Art	1.4	1.2	1.7	0.8	0.8	0.8
Metaphysics, Epistemology	1.9	2.5	1.3	1.0	1.4	0.7
Philosophy of Language	0.9	1.2	0.6	0.5	0.6	0.3
Hist. of Philosophy: General	1.6	1.8	1.5	0.9	1.1	0.7
Ancient & Medieval Phil	1.8	2.2	1.4	1.1	1.3	0.8
Phil: Rennais. through 19th	1.5	1.8	1.1	0.8	1.0	0.6
Contemp. Phil: Analyt, Exist	2.1	2.3	1.8	1.0	1.3	1.0
Non-Western Philosophy	0.9	0.9	0.8	0.5	0.5	0.5
Philosophy of Education	1.7	0.8	2.7	0.9	0.6	1.3
Phil. of Science, Sci. Meth	1.5	2.0	0.9	0.8	1.1	0.4
Philosophy of Religion	1.8	2.0	1.5	1.1	1.2	0.9
Philos.:Indeterm.,Missing	10.2	11.5	8.8	6.3	7.1	5.4
3802: Religion						
Religion: Gen, Compar Topics	12.4	11.9	12.9	7.5	7.4	7.6
Non-Western Religions	2.1	1.5	2.7	1.1	0.8	1.4
Mormon Texts and History	0.5	0.5	0.4	0.5	0.5	0.5
Christianity: all Topics	3.3	3.5	3.0	2.1	2.2	1.9
Judaism: all Topics	0.9	0.7	1.1	0.5	0.4	0.5
Religious Ethics/Morality	0.9	1.0	0.8	0.5	0.6	0.4
Philosophy & Religion: Other	2.0	1.8	2.3	1.1	1.0	1.2
39: Theology						
Biblical Langs.: Seminary	0.7	1.1	0.3	0.4	0.6	0.3
Bible Studies	11.7	10.6	12.9	7.8	7.2	8.3
Missionary Studs, Evangelism	0.9	0.9	0.8	0.6	0.7	0.6
Religious Education	1.3	1.7	0.7	0.9	1.2	0.5
Religious Music	0.6	0.6	0.5	0.4	0.4	0.3
Theological Studies	5.2	6.0	4.2	3.3	3.7	2.9
Christian Living/Activities	1.9	1.9	2.0	1.2	1.2	1.3
Theology: Other	1.2	1.4	1.0	0.7	0.7	0.6
40: Physical Sciences						
Physical Sci.: General	13.7	12.2	15.4	9.8	9.7	9.9
Astronomy	14.1	16.2	11.7	8.9	10.5	7.2
Astrophysics	0.4	0.7	0.1	0.2	0.4	0.1
Atmospheric Sci., Meteorol	5.0	6.5	3.3	3.0	4.2	1.8

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
4005: Chemistry						
Chemistry: General	35.3%	41.1%	28.8%	25.4%	28.8%	21.9%
Analytical Chemistry	5.6	7.1	4.0	3.1	4.0	2.2
Inorganic Chemistry	3.3	4.4	2.1	2.2	2.8	1.6
Organic Chemistry	15.1	18.0	12.0	8.3	10.0	6.5
Pharmaceutical Chemistry	1.0	1.1	0.8	0.5	0.6	0.4
Physical Chemistry	2.9	4.0	1.7	1.4	2.1	0.8
Chemistry: Other Topics	1.7	2.2	1.2	1.0	1.3	0.6
Chem: Research, Indep. Study	0.6	0.9	0.3	0.3	0.4	0.1
Applied Chemistry	2.6	2.9	2.2	1.8	2.0	1.6
Chem. for Nursing/Health	0.5	0.2	0.9	0.5	0.1	0.9
Chem.: Missing, Indeterm.	1.3	1.8	0.7	0.7	1.0	0.5
4006/4007: Geology & Other						
Geology: General	16.4	19.0	13.5	10.7	12.8	8.4
Geochemistry	0.2	0.3	0.2	0.2	0.2	0.1
Geophysics & Seismology	1.1	1.7	0.5	0.7	1.0	0.3
Paleontology	1.7	2.3	1.1	0.9	1.3	0.6
Mineralogy, Petrology	1.1	1.8	0.4	0.6	0.9	0.2
Geological Sci.: Other	1.1	1.3	0.8	0.6	0.8	0.4
Metallurgy	0.3	0.6	0.1	0.4	0.6	0.1
Oceanography: Phys & Biol	4.5	5.8	2.9	2.7	3.4	1.9
Earth Science	7.3	6.8	7.7	4.8	4.9	4.7
Misc. Physical Sci.: Other	0.1	0.2	<0.1	0.1	0.1	<0.1
4008: Physics						
Physics: General	26.2	35.6	15.7	16.7	23.8	9.2
Atomic/Nuclear Physics	1.3	1.8	0.7	0.6	0.9	0.4
Optics	0.5	0.8	0.3	0.3	0.4	0.1
Acoustics	0.8	1.2	0.4	0.4	0.7	0.2
Thermal Sci/Thermodynamics	2.8	5.2	0.1	1.5	2.8	0.1
Elect & Magnet: Intermediate	1.4	2.3	0.5	0.8	1.3	0.2
Modern Physics	0.9	1.4	0.2	0.4	0.7	0.1
Classical Mechanics	0.7	1.3	0.1	0.5	0.9	0.1
Quantum Physics	0.3	0.4	0.2	0.2	0.3	0.1
Physics: Other, Unknown	1.7	2.8	0.5	1.1	1.7	0.4
Planetary Science	0.4	0.6	0.1	0.2	0.3	0.1
Physical Science: Other	0.6	0.5	0.7	0.4	0.5	0.4
41: Science Technologies						
Biological Lab Tech.: All	0.2	0.2	0.3	0.1	0.1	0.1
Nuclear Technologies: All	0.2	0.2	0.1	0.1	0.2	0.1
Chemical Technology	0.2	0.2	0.2	0.2	0.3	0.1
Metallurgical Technology	0.3	0.4	0.1	0.1	0.3	<0.1

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
42: Psychology						
Psychology: Gen., Intro.	69.5%	65.1%	74.5%	56.5%	52.1%	60.9%
Clinical Psychology	2.5	2.1	3.0	1.4	1.2	1.6
Cognitive Psychology	5.4	4.6	6.3	2.9	2.5	3.3
Counseling & Community Psych	1.7	1.4	1.9	1.0	0.9	1.1
Developmental Psych	25.9	15.8	37.4	16.8	10.2	23.7
Experiment Psych, Res Meths	5.1	4.8	5.4	2.8	2.6	2.9
Industrial & Organiz. Psych	2.9	3.5	2.2	1.7	2.2	1.3
Personality Psychology	14.6	11.1	18.6	9.1	7.1	11.1
Abnormal Psychology	14.9	9.9	20.4	8.6	6.2	11.1
Human Sexuality	3.6	2.5	4.9	2.2	1.9	2.6
Physiological Psych	4.0	3.6	4.5	2.2	1.9	2.4
Psycholinguistics	1.3	0.7	2.1	0.6	0.3	1.0
Psychometrics	1.9	1.7	2.2	1.0	0.9	1.1
Psychopharmacology	0.7	0.7	0.6	0.3	0.3	0.3
Quantitative Psych, Stats	3.3	3.2	3.3	1.8	1.8	1.9
Social Psych, Envir. Psych	17.3	15.3	19.5	10.7	9.6	11.8
History of Psychology	1.7	1.6	1.9	0.9	0.9	1.0
Psych Field Work, Internship	0.8	0.7	0.9	0.4	0.4	0.5
Psych Seminars, Readings	3.0	2.6	3.6	1.6	1.4	1.8
Psych: Missing, Indeterm	6.2	5.7	6.8	3.9	3.5	4.3
43: Protective Services						
Correctional Administration	0.3	0.4	0.3	0.3	0.3	0.3
Corrects, Penol, Probation	1.7	1.8	1.6	1.3	1.4	1.2
Criminal Just. Admin, Courts	1.4	1.8	0.8	1.4	1.9	0.8
Crim Justice Studies: Gen	2.0	2.6	1.3	1.7	2.3	1.0
Criminalistics, Evidence	1.3	2.0	0.5	1.6	2.5	0.6
Forensic Studies	0.2	0.4	<0.1	0.2	0.3	<0.1
Law Enforce, Gen.Police Train	1.8	2.4	1.2	2.3	3.3	1.3
Law Enforcement Administrat.	1.1	1.7	0.3	1.0	1.7	0.3
Security Services	0.1	<0.1	0.1	0.1	0.2	0.1
Internships, Field Exper	0.5	0.7	0.3	0.4	0.5	0.2
Crimi. Law & Proced.: Police	1.0	1.5	0.5	0.8	1.1	0.5
Police/Community Relations	0.4	0.5	0.3	0.4	0.6	0.2
Traffic Law/Control/Mgmt.	0.3	0.5	0.1	0.6	1.0	0.2
Juvenile Justice/Delinquency	0.9	0.9	1.0	0.9	1.1	0.8
Narcotics, Drug Enforcement	0.1	0.3	<0.1	0.2	0.3	0.1
Criminal Justice: Other	0.4	0.3	0.5	0.3	0.4	0.2
Fire Control and Safety Tech	0.1	0.2	0.1	0.3	0.5	<0.1
Fire Protection Admin.	---	---	---	0.1	0.3	<0.1
Firefighting	<0.1	<0.1	---	0.1	0.2	<0.1
Fire Protection: Other	---	---	---	0.1	0.3	---
Protect. Servs.: Missing	<0.1	---	0.1	<0.1	<0.1	<0.1

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
44: Public Administration/Services						
Community Services, Organiz.	1.5%	0.9%	2.1%	1.0%	0.6%	1.4%
Intl Organizats, Intl Serv	0.8	0.8	0.7	0.4	0.4	0.4
Public Administration	3.2	4.6	1.6	1.7	2.5	0.9
Public Policy Studies	2.2	2.3	2.0	1.2	1.3	1.1
Public Works (Sanit, Utils.)	0.3	0.5	0.1	0.3	0.5	0.1
Social Work: General	5.2	2.7	8.0	3.2	1.7	4.7
Medical Social Work	0.4	0.2	0.6	0.2	0.1	0.3
Social Welfare	1.0	0.5	1.6	0.5	0.3	0.8
Social Work Practicums, Field	0.6	0.1	1.2	0.3	0.1	0.6
Research in Soc Work/Welfare	0.3	<0.1	0.6	0.1	<0.1	0.3
Social Work: Other, Unknown	0.5	0.1	0.9	0.3	0.1	0.5
Public Affairs: Other	0.5	0.4	0.6	0.3	0.3	0.3
45: Social Sciences						
Social Sciences: General	3.6	3.3	3.8	3.6	3.5	3.7
Anthropol.: Gen, Intro	16.6	14.6	18.9	10.8	10.1	11.5
Cultural Anthropology	11.3	8.7	14.2	7.5	6.2	8.8
Physical/Biolog/Med Anthro	3.5	3.5	3.5	2.6	2.7	2.4
Non-West Peoples & Cultures	0.5	0.5	0.5	0.3	0.3	0.3
Native Amer (No.& Sth.) Peop	1.0	0.9	1.2	0.7	0.6	0.8
Lang, Linguistics & Culture	0.7	0.4	1.1	0.4	0.3	0.5
Anthro Readings, Research	0.3	0.3	0.4	0.2	0.1	0.2
Anthropology: Other, Unknown	1.5	1.3	1.8	0.9	0.8	1.0
Archaeology	2.4	2.4	2.4	1.3	1.4	1.2
Criminology	8.4	7.8	9.0	5.3	5.4	5.1
Demography	2.5	2.6	2.4	1.4	1.6	1.1
4506: Economics						
Economy & Society, Econ Probs	5.2	6.0	4.2	3.5	4.2	2.8
Economics: Princs, Intro	44.1	55.8	30.9	31.4	40.8	21.5
Intermed. Microeconomics	8.9	12.8	4.5	5.0	7.3	2.5
Intermed. Macroeconomics	4.6	6.7	2.1	2.4	3.7	1.1
Economic Statistics	2.3	3.5	1.0	1.2	2.0	0.5
Econometrics, Forcecasting	0.6	0.9	0.3	0.3	0.5	0.1
Public Finance	1.5	2.2	0.8	0.8	1.2	0.4
Intl Trade, Finance, Econ	1.6	2.6	0.6	0.8	1.3	0.3
Monetary Theory, Fiscal Pol	1.0	1.6	0.3	0.5	0.8	0.2
Environ & Nat. Resource Econ	2.2	3.4	0.8	1.1	1.8	0.5
Labor & Human Resource Econ	2.9	4.3	1.3	1.4	2.2	0.6
Money & Banking	8.8	12.8	4.3	5.0	7.3	2.4
History of Economic Thought	0.9	1.6	0.1	0.5	0.9	0.1
Comparative Econ Systems	1.4	2.0	0.6	0.7	1.1	0.3
Econ Devel, 3rd World Econ	0.9	1.3	0.5	0.5	0.7	0.3

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Econ: Oth. Determinable Tops	4.0%	5.5%	2.2%	2.2%	3.2%	1.2%
Econ: Missing, Indeterm	1.5	2.2	0.8	0.8	1.1	0.4
4507: Geography						
Geogr: Intro, Combined Tops	19.5	20.1	18.8	12.4	13.3	11.4
Remote Sensing, Anal.Cartog	1.8	2.7	0.8	1.0	1.6	0.4
Cultural Geography	2.7	2.7	2.6	1.7	1.9	1.4
Physical Geography	7.9	8.2	7.6	5.0	5.5	4.4
Economic Geography	1.7	2.4	0.9	1.1	1.7	0.5
Urban Geography	1.2	1.7	0.5	0.6	0.9	0.3
Geog. of N. Amer/Anglo-Amer	3.8	4.5	3.1	2.1	2.6	1.7
Geog. of Europe, USSR	0.6	0.8	0.4	0.3	0.4	0.2
Geog. of Africa, Near East	0.4	0.5	0.2	0.2	0.2	0.2
Geog. of Asia, Pacific	0.3	0.3	0.2	0.2	0.2	0.1
Geog. of Lat. Amer, Carrib	0.5	0.4	0.6	0.3	0.3	0.3
Geography: Other	0.8	0.9	0.6	0.4	0.5	0.3
4508: History						
World Hist/Western Civ	29.2	29.8	28.5	21.9	23.6	20.1
Ancient History	6.3	6.6	6.0	4.0	4.4	3.5
Intell/Cult Hist: Gen, Non-US	2.5	2.3	2.8	1.5	1.5	1.5
Economic/Business History	2.7	3.7	1.5	1.5	2.1	0.8
History of Relig/Church His	2.4	2.8	1.9	1.4	1.6	1.2
Historiography, Res Methods	1.8	2.2	1.3	1.0	1.3	0.8
Hist of Sci, Math, Technol	2.4	2.9	1.8	1.3	1.6	1.0
U.S. History Surveys	41.9	42.7	41.0	32.0	34.5	29.4
US Hist: Topics thru Civ War	4.4	5.3	3.3	2.4	2.9	1.8
US Hist: Topics since Civ War	2.6	3.4	1.7	1.4	1.9	0.8
U.S. Cult, Intellect History	2.9	3.0	2.7	1.6	1.7	1.5
US: Indiv. States, Regions	6.1	6.3	5.9	3.8	4.1	3.5
Afro-American History	1.9	1.5	2.5	1.4	1.3	1.5
U.S. Hist: Other	5.4	6.2	4.5	3.1	3.7	2.5
Euro Hist: Dark/Middle Ages	2.7	2.6	2.8	1.5	1.5	1.5
Euro Hist: Renn to 1789	5.2	5.8	4.5	2.8	3.4	2.3
Euro Hist since 1789	6.2	7.9	4.3	3.6	4.7	2.5
Hist of Indiv Countries	5.2	5.7	4.6	2.8	3.1	2.3
Euro Hist: Other, General	4.0	4.1	3.9	2.3	2.5	2.0
Asian History	2.9	3.4	2.4	1.7	2.1	1.3
African History	1.0	1.0	0.9	0.6	0.7	0.6
Latin American History	2.0	1.9	2.0	1.2	1.2	1.2
Hist of Other World Regions	1.6	1.9	1.2	0.9	1.1	0.7
History: Other, Unknown	8.6	10.5	6.4	5.0	6.2	3.7
International Relations	6.2	8.8	3.2	3.5	4.8	2.1

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
4510: Political Science						
Polit. Sci.: Intro, Princs.	12.0%	15.0%	8.6%	8.2%	10.4%	5.8%
U.S. Govt & Politics	35.5	38.6	31.9	26.2	28.9	23.3
U.S. Constit. Law/Pol/Hist	5.6	7.5	3.4	3.3	4.5	2.1
Polit. Theory/Phil/Ideology	5.3	7.1	3.2	2.9	3.9	1.8
Comparative Govt & Politics	3.2	4.2	2.2	1.9	2.3	1.3
European Govt & Politics	2.1	2.9	1.3	1.1	1.5	0.7
Non-West. Govt & Politics	1.8	2.2	1.3	1.0	1.1	0.8
Methodology, Research Design	1.0	1.3	0.8	0.6	0.7	0.5
Pol. Behavior/Elections/Vote	3.3	4.8	1.7	1.9	2.6	1.2
U.S. State, Local Gov & Pol.	6.7	8.6	4.5	4.5	5.6	3.3
U.S. Foreign Pol, Diplomacy	3.1	4.2	1.9	1.7	2.3	1.0
Pol Sci: Oth Determin Topics	1.9	2.4	1.3	1.0	1.3	0.7
Pol Sci: Indeterm, Unknown	3.1	4.0	2.0	1.8	2.3	1.3
4511: Sociology						
Sociology: Intro, General	49.5	44.4	55.3	39.2	35.0	43.5
Soc Instits: Marriage, Fam	12.3	8.7	16.5	8.7	6.3	11.2
Soc of Race, Minorities	5.1	4.2	6.0	3.1	2.6	3.5
Organiz. Sociol, Org.Process	2.1	2.0	2.2	1.2	1.2	1.2
Soc of Aging, Health, Death	3.3	1.9	4.8	1.9	1.1	2.7
Social Change,Collect Behav	3.4	2.9	3.8	1.8	1.6	2.1
Social Theory	3.6	3.1	4.2	2.0	1.8	2.2
Comparat. Soc, 3rd World Soc	0.6	0.6	0.7	0.4	0.4	0.4
Soc Problems, Deviance, etc.	15.2	13.8	16.7	10.5	9.6	11.4
Sociol Research Methods	3.9	3.2	4.6	2.1	1.7	2.5
Community/Rural/Urban Sociol	3.9	3.5	4.3	2.3	2.1	2.4
Social Stratif., Inequality	2.1	1.6	2.7	1.3	1.2	1.4
Small Groups, Socialization	1.6	1.1	2.1	1.0	0.7	1.3
Applied Sociol, Internships	0.7	0.8	0.6	0.4	0.4	0.4
Sociology: Missingg,Indeterm	8.1	7.6	8.8	5.2	4.7	5.7
Urban Studies	4.4	4.7	4.0	2.5	2.8	2.2
Social Statistics	1.5	1.3	1.7	0.8	0.8	0.8
Social Sciences: Oth, Indet	3.5	3.3	3.7	2.1	2.1	2.1
46: Construction Trades						
Brickmasonry,Stone,Tile	0.1	0.1	---	0.1	0.2	---
Carpentry	0.1	0.1	0.1	0.2	0.4	0.1
Elect/Power Transmiss Instal	0.2	0.3	<0.1	0.2	0.4	<0.1
Electrician	0.2	0.3	---	0.4	0.7	0.1
Building/Property Maintenanc	<0.1	<0.1	---	0.1	0.2	<0.1
Misc. Construction Trades	0.1	0.2	---	0.2	0.3	<0.1
Plumbing,Pipefitting & Steam	<0.1	---	<0.1	0.1	0.1	<0.1
Plumbing	0.1	0.1	---	0.1	0.2	---

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
47: Mechanics and Repairers						
Elec/Electron Repair: Gen	0.3%	0.5%	---	0.7%	1.2%	0.1%
Communication Electron Rep	0.2	0.4	---	0.4	0.7	<0.1
Computer Electronics Repair	0.1	0.2	---	0.2	0.3	---
Industrial Electronics	0.2	0.4	0.1	0.3	0.6	<0.1
Heat,AC & Refrig Mechan: Gen	0.1	0.2	<0.1	0.2	0.4	<0.1
Cooling & Refrigeration	0.1	0.1	---	0.3	0.5	<0.1
Heating & AC	0.1	0.2	---	0.2	0.5	---
Heating, AC & Refrig: Other	---	---	---	0.1	0.2	<0.1
Indust Equip Maint. & Rep	0.1	0.1	---	0.2	0.3	<0.1
Electromech/Hydraul/Pneu Rep	<0.1	0.1	---	0.1	0.3	<0.1
Mechans & Reprers: Other	0.2	0.2	0.1	0.1	0.2	0.1
Stationary Energy Sources	0.1	0.2	---	0.1	0.2	---
Vehicle Equip Mechan: Gen	0.1	0.1	<0.1	0.1	0.3	<0.1
Aircraft Mechanics	0.2	0.3	<0.1	0.3	0.5	<0.1
Auto Body Repair	<0.1	<0.1	0.1	0.4	0.7	0.1
Automotive Mechanics	0.6	0.9	0.2	1.4	2.5	0.2
Diesel Engine Mechanics	0.1	0.1	---	0.4	0.7	<0.1
Small Engine Repair	<0.1	0.1	---	0.1	0.2	<0.1
Vehicle etc. Mechanics: Oth	<0.1	<0.1	---	0.2	0.3	<0.1
Mechanics & Repairers: Oth	---	<0.1	0.1	0.1	<0.1	0.1
48: Precision Production						
Drafting: Gen, Tech Draft	1.1	1.8	0.3	1.8	2.9	0.6
Architectural Drafting	0.9	1.3	0.4	1.1	1.8	0.3
Civil/Structural Drafting	0.3	0.5	<0.1	0.3	0.6	0.1
Electrical/Electron Drafting	0.2	0.4	---	0.5	1.0	<0.1
Mechanical Drafting	0.5	0.8	0.1	0.7	1.3	0.1
Drafting: Other	0.1	0.1	---	0.2	0.4	<0.1
Graph/Printing Communic: Gen	1.1	1.4	0.7	0.8	1.0	0.5
Commercial Art	0.7	0.4	1.0	0.7	0.7	0.8
Commercial Photography	0.6	0.7	0.5	0.5	0.6	0.3
Typesetting, Composition	0.6	0.4	0.8	0.5	0.4	0.6
Lithography, Platemaking	0.7	0.6	0.8	0.5	0.5	0.5
Photographic Lab & Darkroom	0.1	0.2	---	0.1	0.2	0.1
Printing Press Operations	0.2	0.3	0.1	0.1	0.2	0.1
Silk Screen Making & Print	0.5	0.4	0.6	0.4	0.4	0.1
Graphic/Printing Comm: Other	0.4	0.5	0.4	0.3	0.4	0.4
Leatherworking & Upholstery	0.1	0.1	0.1	0.1	0.1	0.1
Meatcutting	0.1	0.1	---	0.4	0.1	---
Precision Metal Work: Gen	0.2	0.4	<0.1	0.4	0.7	<0.1
Machine Tools/Machine Shop	0.5	0.9	<0.1	1.0	1.9	0.1
Metal Fabrication	0.2	0.3	---	0.2	0.3	<0.1
Sheet Metal	0.1	0.2	---	0.2	0.3	<0.1
Tool & Die Making	0.2	0.3	---	0.2	0.3	---
Welding	0.6	1.0	---	1.7	3.0	0.2

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Precision Metal Work: Other	0.2%	0.2%	<0.1%	0.1%	0.3%	<0.1%
Jewelry Design/Fabric/Repair	0.2	0.1	0.2	0.2	0.1	0.2
Precis Work: Assorted Mater	0.1	0.1	0.1	0.1	0.1	<0.1
Woodworking: General	0.9	1.3	0.5	0.7	1.2	0.3
Furniture Making	0.2	0.3	0.1	0.1	0.2	<0.1
Millwork & Cabinet Making	0.1	0.2	0.1	0.1	0.2	<0.1
Woodworking: Other	0.3	0.5	---	0.2	0.4	---
49: Transportation						
Air Transport: General	0.2	0.4	0.1	0.3	0.5	0.1
Airplane Piloting & Navig	0.7	1.2	0.1	0.6	1.0	0.1
Aviation Management	0.2	0.4	0.1	0.2	0.3	0.1
Air Traffic Control	0.1	0.1	<0.1	0.1	0.1	<0.1
Flight Attendants	0.1	0.1	<0.1	0.1	0.1	0.1
Airplane Piloting: Private	0.2	0.4	<0.1	0.2	0.4	0.1
Air Transport: Other	<0.1	<0.1	---	0.1	0.1	<0.1
Vehicle/Equip. Operat.: All	0.1	0.1	---	0.1	0.1	0.1
Deep Water Diving	0.2	0.1	0.2	0.1	0.1	0.1
Sailors & Deckhands	---	---	---	<0.1	<0.1	<0.1
Water Transport: Other	0.1	0.1	---	<0.1	0.1	<0.1
Transportation: Other	0.2	0.3	---	0.1	0.2	<0.1
50: Visual and Performing Arts						
Visual & Perf. Arts: Gen	3.4	3.2	3.6	2.4	2.2	2.5
Visual Communications	1.0	0.8	1.2	0.7	0.6	0.8
Crafts: General	1.7	0.7	2.9	1.2	0.5	2.0
Ceramics	4.1	2.1	6.4	3.1	1.6	4.8
Fiber/Textiles/Weaving	1.1	0.3	2.1	0.8	0.2	1.5
Glass	0.3	0.4	0.3	0.2	0.2	0.1
Metal, Jewerly	1.1	0.5	1.7	0.7	0.5	1.0
Crafts: Other	0.6	0.6	0.6	0.3	0.3	0.4
Dance	10.7	4.1	18.1	7.2	2.6	12.1
History of Dance	0.3	---	0.6	0.2	---	0.3
Design: Gen, 2D, 3D	6.2	4.1	8.6	4.9	3.5	6.5
Graphic Design/Arts/Letter	2.3	2.2	2.4	1.8	1.9	1.8
Illustration Design	0.5	0.3	0.7	0.5	0.4	0.6
Industrial Design	0.4	0.5	0.2	0.3	0.4	0.2
Theatre Design, Stagecraft	2.5	1.7	3.4	1.7	1.2	2.2
Design: Other	1.2	1.1	1.4	0.9	0.7	1.1
Dram. Arts, Acting, Direct	8.7	6.8	10.7	6.0	5.0	7.0
His of Theatre, Drama Crit	7.5	6.3	8.8	5.0	4.3	5.7
5006: Film Arts						
Film Arts: General	4.9	5.3	4.4	3.0	3.4	2.5
Cinematography/Film-Making	1.6	2.1	1.0	1.1	1.5	0.6

	All BAs	Men BAs	Wom BAs	All >10 Cred	Men >10 Cred	Wom >10 Cred
Photography	5.5%	5.9%	5.0%	4.3%	4.9%	3.6%
Video	0.1	0.1	0.2	0.1	0.1	0.1
Hist of Film, Theory, Crit	3.2	3.8	2.6	1.9	2.2	1.5
Film Arts: Other, Indeterm	0.5	0.6	0.3	0.3	0.3	0.2
5007: Fine Arts						
Fine Arts: Gen,Theory,Studio	13.0	10.7	15.6	8.7	7.3	10.1
Art History & Appreciation	22.1	16.9	27.8	15.4	12.8	18.1
Arts Management	0.1	0.2	0.1	0.1	0.1	0.1
Drawing	7.1	5.5	9.0	6.4	5.4	7.5
Intermedia	0.4	0.2	0.7	0.3	0.2	0.3
Painting	3.6	2.1	5.3	2.8	1.8	3.8
Sculpture	2.5	1.6	3.4	1.8	1.4	2.2
Printmaking	1.1	0.5	1.8	0.7	0.4	1.1
Color, Color Theory	0.7	0.4	1.0	0.6	0.3	0.8
Non-West Art: Hist & Apprec	1.1	0.8	1.5	0.7	0.6	0.8
History of Architecture	1.5	1.4	1.6	0.9	1.0	0.8
Fine Arts: Other	3.1	1.8	4.6	2.1	1.6	2.6
5009: Music						
Ear Training, Dictation	15.0	13.6	16.6	9.9	9.5	10.3
Music History & Apprec: Gen	16.2	13.8	18.9	10.8	9.9	11.8
Music Performance	15.8	11.6	20.5	11.7	9.1	14.4
Music Theory	5.6	4.8	6.5	3.9	3.6	4.2
Music Literature	3.5	2.8	4.4	2.1	1.7	2.5
Music History: Classical	2.3	1.9	2.6	1.3	1.1	1.4
Music Hist:Opera/Mus Theatre	0.4	0.5	0.4	0.2	0.2	0.2
Music History: Jazz	1.8	2.2	1.3	1.1	1.4	0.9
Music History: Pop/Rock/Folk	0.8	0.9	0.6	0.6	0.7	0.4
Music Hist: Afro-Amer Music	0.4	0.2	0.6	0.2	0.1	0.3
Non-Western Music	0.3	0.4	0.2	0.2	0.2	0.1
Music: Other, Indeterminable	2.8	2.6	3.0	1.6	1.6	1.6
Visual & Perform Arts:Other	0.4	0.2	0.7	0.3	0.1	0.4
90: Other						
Cooperative Educ: Fld Unspec	0.7	0.8	0.6	0.8	0.9	0.8
Readgs,Indep Stdy: Fld Unspec	2.3	2.1	2.5	1.2	1.2	1.2
College/Freshman Orientation	4.5	4.5	4.6	5.6	5.6	5.6
Sr Seminars,Theses:Field Unsp	0.8	0.9	0.7	0.4	0.4	0.3
Unclassifiable Titles	7.8	7.3	8.3	5.2	4.9	5.6
Missing	12.3	12.3	12.3	10.2	10.1	10.3

PERCENTAGE OF NLS/PETS STUDENTS WHO EARNED MORE THAN 10 CREDITS COMPLETING UNDERGRADUATE COURSES IN AGGREGATE COURSE CATEGORIES, 1972-1984

This presentation condenses the 1,037 course categories of the revised CIP system to 103, and regroups the categories in general curricular configurations (as opposed to the alphabetical listing of the major fields in the CIP system). There are many potential configurations and course clusters in the NLS/PETS data, and the studies to appear in Archives of a Generation will use, for example, "Non-Western Culture and Society" (in an essay on Cultural Literacy and the College Curriculum), "Sportcredits" (in a study of the careers of varsity athletes), and an aggregate of statistics taught anywhere in the college curriculum (in an exploration of the nature, extent, and effects of mathematics study after high school). Once the cleaned and recoded analysis files are released, researchers will be able to construct their own aggregates from the 1,037 categories.

The universe of students for this table consists of all NLS/PETS participants who earned more than 10 undergraduate credits between 1972 and 1984 (N=10,734). The percentages are weighted for each sub-group. Given the differences in curricular participation by men and women, some of the observed differences among the races may be accounted for by the relative proportion of women in each sub-group.

	All	Men	Women	White	Black	Hisp
(% female)	48.9%	---	---	47.9%	60.8%	46.8%
Occupational/ Professional Fields						
Agribusiness	1.8%	2.9%	0.7%	1.8%	1.3%	0.9%
Agric. Production	3.7	4.7	2.7	4.0	1.3	1.5
Agric. Sciences	4.5	5.5	3.4	4.8	1.5	1.4
Natural Resources	3.3	4.3	2.2	3.4	1.1	2.3
Forestry	1.3	2.1	0.5	1.4	0.4	0.5
Accounting	23.8	28.0	19.4	24.1	19.7	15.0
Business Admin	33.3	40.1	26.2	33.3	30.8	29.1
Gen. Distribution	10.9	14.1	7.4	11.1	9.1	5.6
Architecture	3.0	3.3	2.7	3.1	1.5	2.0
Engin Mech/Phys/Sci	3.9	7.1	0.5	4.0	1.8	2.9
Engineering	7.9	14.0	1.4	8.3	3.5	3.0
Engineering Tech	9.9	17.4	2.0	9.9	6.7	10.4
Science Technols.	0.6	0.8	0.4	0.6	0.5	0.9
Special Education	5.3	1.8	9.0	5.2	7.2	2.5
Education: Subjects[1]	17.8	12.0	23.8	17.4	20.3	16.7
Education: Other	22.1	15.0	29.5	21.7	26.0	15.0

	All	Men	Women	White	Black	Hispan
Library Science	1.9%	1.7%	2.1%	2.0%	0.9%	0.3%
Home Economics[2]	16.7	9.3	24.3	16.7	14.8	13.6
Recreation	4.0	5.0	3.0	4.1	3.7	3.0
Allied Health: HPER[3]	4.4	4.5	4.4	4.4	4.5	4.4
Allied Health: Other	12.2	8.0	16.7	12.1	12.6	13.8
Speech Path/Audiol.	2.0	0.7	3.3	2.0	2.6	0.2
Clinical Health Sci.	2.3	1.5	3.1	2.3	2.1	0.8
Profess. Health Sci.	3.4	1.8	5.0	3.4	1.9	4.2
Nursing	6.0	1.2	11.1	6.0	7.3	4.1
Other Health Sciences	2.9	2.6	3.2	2.9	2.7	2.7
Journalism	4.2	4.4	4.1	4.3	3.8	2.9
Law	6.9	9.3	4.3	6.9	6.2	5.9
Protective Services	5.5	7.3	3.6	5.3	5.9	7.3
Public Affairs[4]	7.1	6.6	7.7	6.9	8.6	8.6
Military Science	2.7	4.6	0.6	2.6	3.5	3.1
Theology	10.1	9.5	10.6	10.3	6.8	8.1
Vocational Fields						
Fin. Service Support	4.4	2.2	6.8	4.1	7.5	4.1
Computer Support	3.9	4.2	3.6	3.8	4.4	2.9
Secretarial/Clerical	13.7	5.8	21.9	12.7	20.2	20.0
Special. Marketing	2.5	2.6	2.4	2.5	1.7	1.4
Communic. Technologs	2.0	2.4	1.7	2.1	1.3	1.2
Graphic/Print Commun	2.8	2.8	2.7	2.9	1.1	1.9
Personal Services[5]	0.7	0.5	0.9	0.8	0.1	0.8
Diagnostic/Lab Servs.	3.6	2.3	5.1	3.7	2.1	2.8
Vocational Home Ec	2.9	1.3	4.7	3.0	2.6	0.8
Industrial Arts	2.3	4.0	0.6	2.3	1.8	2.7
Construction	1.1	2.0	0.2	1.1	1.0	1.3
Mechanics/Repair	4.0	7.3	0.6	3.9	4.0	5.3
Precision Production	6.3	10.6	1.8	6.4	4.7	7.1
Transportation	1.4	2.1	0.6	1.5	0.5	1.0
Science & Math						
Biol Sci: General	36.3	34.3	38.3	36.0	36.7	28.5
Biol Service Courses	12.3	6.4	18.5	12.4	12.5	7.0
Biol Sci: All Other	27.7	25.1	30.3	28.2	21.2	16.5
Chemistry	29.0	32.5	25.3	29.7	22.0	15.1
Geol/Earth Sci	17.3	19.9	14.5	17.8	9.1	12.1

	All	Men	Women	White	Black	Hispan
Physics	18.0%	25.8%	9.8%	18.5%	9.8%	11.8%
Phys Sci: All Other	20.3	22.8	17.7	20.4	19.3	14.1
Pre-College Math	32.9	32.9	32.8	31.3	43.6	39.1
Intro College Math	30.9	36.9	24.5	30.8	29.6	23.4
Statistics (Math)	13.7	16.4	10.9	13.9	11.0	6.6
Calculus/Adv Math	21.0	29.8	11.8	21.7	10.6	11.3
Math: All Other	7.2	8.3	6.1	7.2	8.1	3.1
Comput Sci: ADP	5.8	6.5	5.0	5.7	6.8	5.8
Comput Sci: Program	8.2	11.9	4.4	8.3	6.1	4.2
Comput Sci: All Oth	10.9	15.5	6.0	11.0	8.5	6.3
Humanities & Soc Sci						
Liberal & Interdisc.	24.2	23.2	25.2	24.0	25.1	17.4
American Civilizat.	4.7	4.6	4.8	4.8	3.8	2.4
Area Studies	4.7	4.6	4.7	4.4	5.2	6.5
Ethnic Studies	5.5	4.9	6.1	4.0	16.0	15.5
For. Lang: Elem/Int	26.6	23.0	30.4	26.2	20.2	35.3
For. Lang: Advanced	4.7	3.5	5.9	4.5	2.1	11.8
Literature/Letters	51.8	48.9	54.8	52.0	46.1	39.9
Philosophy	31.1	33.8	28.2	31.6	25.1	18.2
Religious Studies	10.7	10.6	10.9	11.0	7.3	5.3
Art History	16.1	13.7	18.6	16.2	14.3	13.1
World/West Civil.	21.9	23.6	20.1	21.7	25.2	10.6
U.S. History Surveys	32.0	34.5	29.4	31.9	28.9	34.4
History: All Other	26.0	28.2	23.7	26.1	24.3	17.3
U.S. Government	26.2	28.9	23.2	25.9	25.1	30.7
Pol. Sci.: All Oth	19.7	24.2	14.8	19.8	16.8	16.4
Writing Skills: All	75.2	75.3	75.0	73.4	82.0	78.2
Communicat: Intro	29.4	29.8	28.9	29.0	31.0	27.8
Communicat: All Oth	25.5	27.2	23.7	25.5	25.0	18.7
Psych: General	56.5	52.1	60.9	56.5	50.1	48.4
Developmental Psych	16.8	10.2	23.7	16.8	16.8	8.8
Psych: All Other	27.1	23.6	30.6	27.2	22.3	21.6
Anthropology	19.4	17.9	21.0	19.7	13.7	16.5
Sociology: Intro.	39.2	35.0	43.5	39.0	39.5	31.0
Sociol.: All Other	25.1	21.8	28.5	24.1	31.8	24.5
Economics: Intro	31.4	40.8	21.5	31.6	26.5	22.8
Economics: All Oth	14.7	20.2	8.9	14.9	11.8	8.2
Geography	19.5	21.0	17.9	19.9	13.5	13.5
Misc Social Sci.	13.5	14.0	12.9	12.6	20.6	15.3

	All	Men	Women	White	Black	Hispan
Fine/Perform Arts						
Crafts	5.2%	2.7%	7.8%	5.3%	2.5%	5.7%
Design	8.2	6.6	9.9	8.5	4.7	6.4
Visual Arts: All Oth	18.1	15.8	20.4	18.0	14.5	18.9
Theatre & Film	16.7	16.8	16.6	17.3	10.2	12.2
Music Performance	11.7	9.1	14.4	11.7	9.3	12.2
Music: All Other	23.7	22.3	25.1	23.6	22.8	15.8
Other Arts	7.5	2.7	12.5	7.3	8.8	8.1
Personal Service						
Homemaking Education	9.4	3.4	15.7	9.5	8.0	7.8
Basic Skills[6]	5.5	4.8	6.2	4.9	9.8	6.8
Phys & Health Activs	61.2	61.1	61.2	60.5	60.1	60.3
Personal Develop.	13.6	10.9	16.4	13.0	17.4	15.9
Other						
Orientat., Co-Op,etc.	7.8	7.9	7.7	6.8	13.8	16.1
Unclassifiable	5.2	4.9	5.6	5.2	4.6	5.9
Missing	10.2	10.1	10.3	10.0	10.4	10.1

NOTES:

1. E.g. Arts Education, Physical Education, Reading & Language Arts, Mathematics Education.
2. "Academic" Home Economics, e.g. nutrition/dietetics, textiles, family development.
3. HPER=Health/Physical Education/Recreation, sometimes known as "Movement Science," and distinguished from Physical Education for Teacher Certification.
4. I confess to an error in programming that would have been too expensive ($450 for this table) to correct: I meant to disaggregate Social Work from Public Affairs. Social Work turns out to account for nearly 45% of all credits earned in the general "Public Affairs" category.
5. Principally Cosmetology.
6. Does not include remedial/developmental language or mathematics courses. The former are included under "Writing Skills," the latter under "Pre-Collegiate Math."

DISTRIBUTION OF COMPLETED COURSES:
By Type of Institution

In the following pages, and for each of the 1,037 course categories in this taxonomy, we present the distribution of all courses completed by NLS/PETS students between 1972 and 1984, by institutional type. By "all courses" is meant both undergraduate and graduate/professional. Transfer courses are not included, i.e. they are counted only at their first taking. By "completed" is meant a course with any grade received except Withdrawal or Incomplete. Grades of "F" are included. Some 12,332 of the 12,599 NLS/PETS students presented records with at least one completed, credit-bearing course by this definition.

There are six institutional types for purposes of this presentation. They were defined with reference to Carnegie Classification codes, and cover the following:

Doctoral:	Research Universities, Class I and Class II Doctoral Degree-Granting, Class I
Comprehensive:	Doctoral Degree-Granting, Class II Comprehensive College, Class I Comprehensive College, Class II
Liberal Arts:	Liberal Arts College, Class I and Class II
Community College:	Community Colleges Two-Year Technical Colleges
Trade:	Proprietary Vocational Schools Vocational-Technical Institutes Proprietary Schools of Business, Design, etc. Corporate Colleges
Specialized:	Religious Institutions/Theological Seminaries Medical Schools Hospital Schools of Nursing/Health Technology Other Professional Health Colleges Colleges of Art/Music Engineering Schools Law Schools Military Service Academies

The NLS/PETS students attended roughly 3,900 institutions, each of which was assigned a Carnegie Code based on its 1975 status as indicated in the Higher Education General Information System (HEGIS). Where the HEGIS designation was in conflict with degrees actually awarded by an institution on the transcripts of NLS/PETS students, institutional status was resolved in favor of the latter. For example, a branch campus of a state university might have been listed in HEGIS as a 2-year public college, but if we found that it was awarding Bachelor's degrees, we classified it as a Comprehensive College.

Of particular note in this classification are specialized institutions. In the HEGIS system, the U.S. Service academies (e.g. West Point), major institutes of technology (e.g. Stevens), and colleges of art/design (e.g. Rhode Island School of Design) are classified under special Carnegie codes. For this presentation, we maintained their original designation. But for other analyses, our rule was that if any of these schools awarded Bachelor's degrees in subjects other than their nominal specialty, they were not specialized institutions, and were reclassified accordingly.

The table below indicates both the **TOTAL** number of instances of completed courses and the **percentage** of those courses completed in each type of institution. One must judge the percentage distribution in each case against the percentage distribution for all completed courses indicated in the first line of the table. Under "Agricultural Business and Management: General" (the first course entry), for example, community colleges provided knowledge to the NLS/PETS cohort in a much higher proportion than they did for all courses, and liberal arts colleges in a lower proportion.

	INSTITUTIONAL TYPE						
COURSE	Doct	Comp	LibA	CommC	Trade	Spec	CASES
ALL COURSES	29.4%	36.0%	6.1%	22.0%	2.3%	4.3%	430,885
AGRICULTURAL BUSINESS/PRODUCTION							
Agric Bus & Mgt: General	24.5	35.1	1.3	31.8	2.0	5.3	151
Agric Business	43.6	16.0	0.0	35.1	5.3	0.0	94
Agric Economics	60.7	24.5	0.3	13.5	1.0	0.0	290
Farm & Ranch Management	27.6	41.4	0.0	25.9	2.6	2.6	116
Ag Bus,Management & Market: Other	20.5	18.0	0.0	61.5	0.0	0.0	39
Agric Mechanics: General	29.3	53.5	0.0	15.5	1.7	0.0	58

	Doct	Comp	LibA	CommC	Trade	Specl	N
Agric Electrific. Farm Elect.Syst	60.5	21.1	0.0	15.8	2.6	0.0	38
Agric Mechanics, Farm Shop	40.5	38.1	0.0	21.4	0.0	0.0	42
Agric Power Mach, Field Equipment	26.2	11.9	0.0	58.3	2.4	1.2	84
Ag Struct, Equip, Facilities	54.2	27.1	0.0	16.7	2.1	0.0	48
Ag Soil/Water Practices	57.3	24.7	0.0	11.2	3.4	3.4	89
Agric Production: General	35.9	29.7	0.0	31.4	0.0	3.1	64
Animal Production Feed Lot,Pasture	52.4	20.1	0.5	22.2	2.1	2.7	189
Crop Production	38.1	35.1	0.0	23.8	2.4	0.6	168
Agric.Production: Other	44.1	35.3	0.0	17.7	0.0	2.9	34
Agric Products/ Processes	53.2	21.3	0.0	21.3	0.0	4.3	47
Agric Supplies/ Services	35.3	17.7	0.0	47.1	0.0	0.0	17
Horse Handling & Care,Training	61.0	9.8	0.0	29.3	0.0	0.0	41
Horticulture: Gen Organic Garden	53.3	26.3	1.5	19.0	0.0	0.0	137
Aboriculture	39.1	17.4	4.4	39.1	0.0	0.0	23
Ornamental Horticulture	45.1	29.7	1.1	24.2	0.0	0.0	91
Greenhouse Operations	37.5	33.3	0.0	29.2	0.0	0.0	24
Landscaping	41.8	22.5	0.0	34.7	1.0	0.0	98

	Doct	Comp	LibA	CommC	Trade	Specl	N
Nursery Operations	21.7	34.8	0.0	43.5	0.0	0.0	23
Turf Management	42.9	14.3	0.0	42.9	0.0	0.0	28
Agribus/Ag Product:Other	29.4	27.5	0.0	43.1	0.0	0.0	102

AGRICULTURAL SCIENCES

	Doct	Comp	LibA	CommC	Trade	Specl	N
Agric. Sciences: General	56.4	32.5	1.6	9.5	0.0	0.0	126
Animal Sciences: General	53.5	31.5	0.6	13.7	0.3	0.6	359
Anim Breed,Reproduction	62.2	26.8	0.8	5.5	0.8	3.9	127
Animal Health: Farm/Range	57.5	14.9	0.0	21.3	4.3	2.1	47
Animal Nutrition, Feeds, Feeding	58.1	25.0	1.7	12.8	1.2	1.2	172
Dairy	49.3	35.2	0.0	11.3	4.2	0.0	71
Livestock	48.3	28.1	0.0	19.1	2.8	1.7	178
Poultry	55.8	34.6	0.0	9.6	0.0	0.0	52
Animal Sciences: Other	75.0	19.4	0.0	5.6	0.0	0.0	72
Food Sciences, Systems	58.0	25.3	0.0	15.3	1.3	0.0	150
Plant Sciences: General	47.3	33.7	0.6	17.8	0.0	0.6	169
Agronomy	57.8	28.4	0.0	13.7	0.0	0.0	102

	Doct	Comp	LibA	CommC	Trade	Specl	N
Horticultural Sci Plant Propagat.	60.3	19.0	0.0	17.2	0.0	3.5	58
Plant Protect/ Pest Control	32.6	30.2	0.0	32.6	4.7	0.0	43
Range Management	71.2	25.4	0.0	3.4	0.0	0.0	59
Plant Sci: Other	47.5	40.7	1.7	10.2	0.0	0.0	59
Soil Sciences & Soil Conservat.	45.2	34.2	1.1	15.3	2.3	2.0	354
Agric Sciences: Other	48.8	31.7	0.0	19.5	0.0	0.0	41
RENEWABLE NATURAL RESOURCES							
Renew Nat.Resources: General	50.0	41.1	0.0	8.9	0.0	0.0	56
Land/Water Use, Mgt, Resources	42.4	39.4	3.0	9.1	0.0	6.1	33
Conservation: Gen	33.9	48.3	3.9	13.9	0.0	0.0	230
Resource Mgt & Regulation	48.4	38.7	0.0	3.2	0.0	9.7	31
Fishing & Fisheries	60.6	24.2	0.0	9.1	0.0	6.1	33
Forestry Product: Gen, For.Utiliz.	32.6	19.6	0.0	37.0	2.2	8.7	46
Logging, Forest Harvesting	5.3	10.5	0.0	63.2	5.3	15.8	19
Forestry & Rel. Sci: General	50.4	18.9	1.6	23.6	0.8	4.7	127
Forestry Sci., Dendrology	46.9	16.4	3.1	24.2	0.0	9.4	128

	Doct	Comp	LibA	CommC	Trade	Specl	N
Forest Management Silviculture	41.0	22.5	2.3	14.6	1.1	18.5	178
Wood Sci, Forest Mensuration	47.5	30.0	0.0	7.5	5.0	10.0	40
Forestry & Rel Sci.: Other	38.4	20.8	3.2	28.8	2.4	6.4	125
Wildlife Mgmt & Conservation	66.0	21.8	0.7	6.1	0.0	5.4	147
Renewable Nat. Res.: Other	68.7	14.5	0.0	4.8	0.0	12.1	83

ARCHITECTURE & ENVIRONMENTAL DESIGN

	Doct	Comp	LibA	CommC	Trade	Specl	N
Archit & Envir: General	44.8	37.9	0.0	10.3	3.5	3.5	29
Architecture	81.2	10.9	0.4	3.0	1.3	3.2	469
City, Comm & Reg Planning	64.8	24.7	1.7	3.9	0.0	5.0	182
Environmental Design	71.9	20.3	3.1	4.7	0.0	0.0	128
Interior Design	43.6	22.1	3.1	18.4	8.6	4.3	163
Landscape Archit	80.5	4.5	0.8	9.8	0.8	3.8	133
Urban Design	85.0	10.0	0.0	2.5	0.0	2.5	40
Archit & Envir. Design: Other	83.7	9.3	0.0	3.5	0.0	3.5	86

AREA STUDIES

	Doct	Comp	LibA	CommC	Trade	Specl	N
African Studies	28.2	58.5	8.2	4.4	0.0	0.7	135
American Studies	34.7	36.3	2.9	24.8	0.3	1.0	874

	Doct	Comp	LibA	CommC	Trade	Specl	N
Asian Studies	45.9	40.0	5.9	8.2	0.0	0.0	85
East Asian Studies	47.4	41.1	5.3	4.2	0.0	2.1	95
East European Studies	66.7	16.7	16.7	0.0	0.0	0.0	6
European Studies	46.3	37.2	5.0	11.6	0.0	0.0	121
Latin American Studies	45.3	34.3	7.7	11.6	0.0	1.1	181
Middle Eastern Studies	30.5	55.9	6.8	3.4	0.0	3.4	59
Pacific Area Studies	64.3	14.3	14.3	7.1	0.0	0.0	14
Russian and Slav. Studies	55.0	26.4	8.8	8.8	0.0	1.1	91
Scandinavian Studies	93.3	6.7	0.0	0.0	0.0	0.0	15
South Asian Studies	27.8	66.7	5.6	0.0	0.0	0.0	18
Southeast Asian Studies	6.7	60.0	20.0	13.3	0.0	0.0	15
Western European Studies	39.1	52.2	0.0	8.7	0.0	0.0	23
Canadian Studies	50.0	50.0	0.0	0.0	0.0	0.0	16
Area Studies: Other	15.8	21.1	52.6	10.5	0.0	0.0	19

ETHNIC STUDIES

Afro-American/ Black Studies	37.9	42.1	7.6	11.0	0.3	1.0	589

	Doct	Comp	LibA	CommC	Trade	Specl	N
Native American Studies	34.7	46.9	4.2	13.8	0.4	0.0	239
Hispanic American Studies	22.5	47.6	1.5	26.9	0.0	1.5	271
Islamic Studies	76.9	7.7	15.4	0.0	0.0	0.0	13
Jewish Studies	54.8	31.2	8.6	2.2	0.0	3.2	93
Asian-American Studies	45.5	54.6	0.0	0.0	0.0	0.0	22
Ethnic Studies: Other	11.1	46.3	3.7	37.0	0.0	1.9	54

BUSINESS & MANAGEMENT

Gen. Business Principles	10.4	31.9	3.1	49.2	3.3	2.1	1552
Business Law, Legal Envir.	22.8	37.9	3.7	30.0	3.2	2.5	2667
Business and Gov	32.8	52.5	8.6	5.1	0.0	1.0	198
Intro. Accounting	20.1	32.2	4.0	37.7	3.8	2.1	5306
Tax Accounting	35.1	36.9	3.1	13.3	4.6	7.0	952
Account.:Advanced	35.8	42.5	3.7	11.8	3.0	3.3	3840
Finance: Princ., Corporate	42.5	44.4	3.4	5.9	0.9	3.0	1621
Bank/Finan. Inst Operations,Mgmnt	37.6	20.8	2.5	33.7	1.5	4.0	202
Securities and Investments	41.3	40.2	5.4	7.6	0.8	4.6	368

	Doct	Comp	LibA	CommC	Trade	Specl	N
Management: Gen, Theory	31.8	39.1	3.5	19.0	2.2	4.5	2455
Operations & Production Mgmnt.	43.4	43.2	1.3	9.6	0.5	2.0	606
Business Economics	46.8	39.8	1.2	4.7	0.6	7.0	171
Personnel Mgt./ Human Res.Devel.	27.2	40.0	2.9	24.0	2.3	3.6	920
Institutional Management	37.2	28.7	1.1	25.5	4.3	3.2	94
Transportation Management	50.9	21.4	0.0	17.0	5.4	5.4	112
Insurance & Risk Management	44.5	35.7	2.5	13.2	1.7	2.5	364
International Management	53.2	36.3	1.6	0.8	0.0	8.1	124
Labor/Industrial Relations	40.3	40.7	3.1	11.6	1.7	2.6	459
Management Information Systems	42.0	44.4	0.4	7.0	0.4	5.8	257
Business Statistics	45.9	42.7	1.1	8.9	0.5	0.9	801
Operat. Research, Decision Sci.	49.7	44.5	1.0	0.9	0.2	3.7	670
Management Sci./ Quant. Methods	39.1	45.5	4.0	5.0	0.0	6.4	202
Marketing Manag., Theory,Strategy	42.4	40.0	2.2	12.0	1.2	2.2	1138
Marketing Research	44.4	45.9	0.9	4.1	0.6	4.1	320
Organizational Behev., Devel.	44.7	42.1	2.1	7.7	1.0	2.5	1104
Real Estate	32.7	27.2	2.2	31.2	1.7	5.0	727

	Doct	Comp	LibA	CommC	Trade	Specl	N
Small Business Management	17.5	29.1	1.9	44.2	2.4	4.9	206
Internships in Business	21.4	35.9	6.0	31.6	4.3	0.9	117
Personal Finance	24.8	40.4	7.0	23.0	1.3	3.5	230
Bus. Admin: Indeterminate, Oth	34.5	32.7	6.1	16.9	5.9	3.9	539
OFFICE SUPPORT OCCUPATIONS							
Account & Bookkeeping	7.2	14.4	0.0	59.7	17.3	1.4	139
Comput. Account., Clerical Account	5.8	3.9	5.8	50.0	30.8	3.9	52
Bookkeeping	0.0	4.0	0.0	77.0	19.0	0.0	100
Machine Billing/ Office Machine	3.7	21.0	1.2	52.1	19.4	2.6	428
Account & Bookkp. Suppt: Other	13.2	13.2	0.0	47.4	26.3	0.0	38
Banking & Related Fin Prog. Supp't	8.2	21.3	0.0	60.7	9.8	0.0	61
Banking Occupations: Other	3.0	42.4	0.0	39.4	12.1	3.0	33
Business Data Processing	28.4	33.0	1.1	28.4	6.7	2.4	373
Business Computer Operations	14.1	19.2	0.0	53.5	13.1	0.0	99
Bus Data Entry Equip Operations	0.7	7.3	1.5	62.0	25.6	2.9	137
Business Data Programming	21.1	43.4	0.0	29.0	6.6	0.0	76

	Doct	Comp	LibA	CommC	Trade	Specl	N
Office Supervis.	8.3	30.5	2.2	47.1	9.5	2.5	325
Personnel & Training Programs	11.8	17.7	11.8	47.1	11.8	0.0	17
Secretarial Progs General	2.6	17.7	2.1	59.6	16.0	2.1	1491
Court Reporting	2.7	37.0	0.0	17.8	32.9	9.6	73
Executive Secretarial	9.5	0.0	0.0	52.4	28.6	9.5	42
Legal Secretarial	3.6	23.8	1.2	46.4	20.2	4.8	84
Medical Secretary	2.5	5.7	0.4	49.4	41.6	0.4	245
Secretarial	4.2	15.2	0.0	63.6	16.4	0.6	165
Stenography	4.2	17.0	2.3	57.8	17.1	1.7	1690
Secretar. Progs. Other	3.0	11.9	3.0	53.7	26.9	1.5	67
General Office Programs	4.8	19.9	1.5	47.3	21.9	4.6	607
Typing, Clerk-Typist	0.6	9.2	2.4	67.8	18.7	1.3	1074
Busin. Correspondence	19.1	16.0	0.8	45.0	17.6	1.5	131
Duplicat. Machine Operations	0.0	23.1	0.0	56.4	20.5	0.0	39
General Office Clerk	3.0	8.4	1.7	59.9	26.6	0.3	297
Receptionist	13.0	13.0	0.0	21.7	52.2	0.0	23
Gen. Office Occupations: Other	1.6	22.1	1.6	54.9	14.8	4.9	122

	Doct	Comp	LibA	CommC	Trade	Specl	N
Word Processing	4.4	10.9	2.2	65.2	15.2	2.2	46
Bus. Communicat., Bus. English	10.8	35.1	1.7	38.2	12.8	1.4	851
Bus. Support: Oth	11.1	25.9	0.0	40.7	22.2	0.0	27

SPECIALIZED MARKETING

	Doct	Comp	LibA	CommC	Trade	Specl	N
Fashion, Apparel	17.7	7.3	0.0	53.2	8.9	12.9	124
Fashion Modeling	0.0	0.0	3.6	17.9	78.6	0.0	28
Display	6.5	32.3	0.0	51.6	9.7	0.0	31
Food Marketing	4.8	23.8	0.0	66.7	4.8	0.0	21
Industrial Sales	22.5	47.5	5.0	17.5	2.5	5.0	40
International Marketing	40.0	43.1	3.5	3.5	1.7	8.6	58
Purchasing	7.3	37.7	0.0	46.4	7.3	1.5	69
Retailing	19.6	30.2	1.0	43.5	3.5	2.3	398
Sales	16.5	30.9	2.8	39.4	6.3	4.2	431
Marketing/Distribution: General	28.5	43.0	3.2	19.0	1.5	4.9	1071
Gen. Marketing: Other	29.6	43.2	0.0	12.5	5.7	9.1	88
Hospitality & Recreational Mktg	42.5	22.5	0.0	27.5	7.5	0.0	40

	Doct	Comp	LibA	Commc	Trade	Specl	N
Insurance Marketing	39.3	41.0	1.6	11.5	3.3	3.3	61
Transport. & Travel	17.4	19.6	4.4	19.6	28.3	10.9	46
Tourism	11.5	38.5	0.0	46.2	3.9	0.0	26
Travel Services	3.5	3.5	0.0	41.4	51.7	0.0	29
Auto Vehicles/ Accessories Mktg	0.0	6.7	0.0	20.0	13.3	60.0	30
Spec.Marketing/ Distrib.: Other	41.3	43.5	0.0	8.7	4.4	2.2	46

COMMUNICATIONS

Communications: General	18.2	36.4	5.3	34.9	2.4	2.6	4185
Advertising	38.0	31.6	2.0	18.7	5.4	4.3	765
Communications Research/Theory	46.1	38.2	1.2	11.5	2.4	0.6	165
Journalism,Reporting,Editing,etc	41.8	38.5	3.4	14.0	1.1	1.3	1027
Public Relations	40.4	42.5	1.8	10.9	2.8	1.8	285
Radio/TV News Broadcast,Direct	36.2	47.2	4.1	9.0	1.4	2.1	290
Radio/TV: Gen., Writing for	38.0	42.3	4.8	12.4	1.2	1.2	581
Mass Communications/Media	43.0	42.6	2.6	9.1	1.1	1.6	618
Public Opinion & Propaganda	37.3	53.7	7.5	1.5	0.0	0.0	67

	Doct	Comp	LibA	CommC	Trade	Specl	N
Communic. Law, Ethics, Regulat.	53.9	42.3	1.0	2.9	0.0	0.0	104
Interpersonal Communication	31.1	40.6	4.4	22.4	0.2	1.3	827
Interviewing	23.1	38.5	2.6	35.9	0.0	0.0	39
Internships in Communcations	43.1	27.5	4.6	24.8	0.0	0.0	109
Communication: Indeterm, Other	35.0	32.0	3.3	24.4	2.6	2.6	303

COMMUNICATIONS TECHNOLOGIES

	Doct	Comp	LibA	CommC	Trade	Specl	N
Educational Media Technol,A/V Prod	19.1	58.3	5.2	11.3	3.5	2.6	115
Motion Picture Technology	45.8	4.2	8.3	0.0	0.0	41.7	24
Photographic Tech Camera Theory	17.5	50.0	7.5	22.5	2.5	0.0	40
Radio/TV Produc. & Broadcst Techn	32.1	41.2	3.0	16.4	7.3	0.0	165
Sound Recording Technology	26.8	34.2	0.0	17.1	22.0	0.0	41
Communic. Techn: Other	12.5	50.0	4.2	33.3	0.0	0.0	24

COMPUTER SCIENCE

	Doct	Comp	LibA	CommC	Trade	Specl	N
Intro. Computer Science	31.9	37.6	5.4	16.9	1.1	7.3	854
Comput. Literacy	32.6	38.6	4.3	21.0	0.4	3.0	233
Comput Program.	24.5	32.1	3.0	32.9	3.4	4.2	1504

	Doct	Comp	LibA	CommC	Trade	Specl	N
Algorithms, Algorithmic Devel.	48.6	28.6	4.3	12.9	1.4	4.3	70
Machine/Assembly Language	24.8	23.3	1.5	36.8	11.3	2.3	133
Compiler Language	39.2	27.9	2.5	29.1	0.0	1.3	79
Data Processing: Gen., RPG	11.4	22.3	2.2	56.2	6.0	2.0	967
Data/Info/File Structures	43.6	45.5	0.0	7.3	0.0	3.6	55
Info Systems, Data Base Mgmt	46.5	38.7	1.9	9.7	0.0	3.2	155
Systems Analysis, Devel.	24.9	37.6	1.8	26.6	5.7	3.5	229
OS, JCL, System Software & Prog.	33.7	22.8	1.1	32.6	7.6	2.2	92
Comput. Applicat: General	22.9	47.1	2.9	20.0	4.3	2.9	70
Comput. Applicat: Sci & Engineer.	40.2	23.2	2.4	12.2	2.4	19.5	82
Comput. Applicat: Business; COBOL	52.0	32.4	2.0	7.8	3.9	2.0	102
Comput. Applicat: Other Fields	43.6	41.0	2.6	12.8	0.0	0.0	39
Automata, AI, Graphics, Oth Adv	65.3	26.5	2.0	6.1	0.0	0.0	49
Numerical Analysis/Methods	60.2	30.1	6.0	2.3	0.0	1.5	133
Oth Comput Sci. Topics	32.9	32.9	5.1	24.1	2.5	2.5	79
Comp.Sci: Indeterm./Unknown	48.5	25.8	3.0	18.2	4.6	0.0	66

	Doct	Comp	LibA	CommC	Trade	Specl	N
CONSUMER & PERSONAL SERVICES							
Funeral Services	23.8	4.8	0.0	54.0	17.5	0.0	63
Cosmetology, Barbering,Hair Sty	1.6	0.4	0.4	42.3	54.9	0.4	253
Consumer/Pers. Services: Other	10.8	27.0	2.7	56.8	2.7	0.0	37
EDUCATION							
Education: Generl	23.1	50.5	9.3	15.2	0.4	1.5	685
Bilingual/Cross-cultural Educat	33.7	63.9	1.2	1.2	0.0	0.0	83
Curric. & Curric Theory	26.8	56.7	10.3	3.8	0.0	2.4	291
Instruction, Meth & Materials	28.5	51.5	10.7	5.9	0.1	3.3	829
School Administration	30.6	59.0	4.5	1.0	0.0	4.9	288
Educational Supervision	9.3	80.0	0.0	10.7	0.0	0.0	75
Higher Ed Admin & Research	43.2	54.1	0.0	2.7	0.0	0.0	37
Instruct./Educat. Media	22.4	66.2	7.5	1.6	0.7	1.6	438
Evaluation and Research	24.9	71.5	2.2	1.1	0.4	0.0	277
Educational Statistics	48.5	42.7	1.5	2.9	0.0	4.4	68
Educat. Testing, Measurement	23.1	67.7	8.2	0.4	0.0	0.6	489

	Doct	Comp	LibA	CommC	Trade	Specl	N
Educat. Research: Other	34.4	53.1	4.7	7.8	0.0	0.0	64
Educational Psych	28.3	55.7	9.0	5.3	0.2	1.5	1795
School Psychology	40.0	54.3	0.0	1.4	0.0	4.3	70
Soc., Hist.,Phil. Foundations	22.8	60.5	11.6	3.9	0.3	0.9	958
Special Educat.: General	28.3	60.5	5.6	4.2	0.3	1.1	788
Spec. Ed.: Cult. Disadvantaged	25.9	63.0	0.0	7.4	0.0	3.7	27
Spec. Ed: Deaf/ Hearing Impaired	57.4	26.9	12.0	3.7	0.0	0.0	108
Spec. Ed.: Gifted & Talented	42.6	49.6	1.7	5.7	0.4	0.0	230
Spec. Ed.: Emotionally Handic	28.7	63.0	0.0	2.8	2.8	2.8	108
Spec. Ed.: Mental Handicapped	29.2	64.4	4.8	1.6	0.0	0.0	315
Spec. Ed.: Multiple Handicapped	40.4	46.8	10.6	2.1	0.0	0.0	47
Spec. Ed.: Physically Handicap.	46.4	46.4	0.0	7.1	0.0	0.0	28
Spec. Ed.: Remedial Educ.	27.4	53.2	12.9	3.2	0.0	3.2	62
Spec. Ed.: Learn. Disabilities	28.7	59.1	5.9	1.8	0.7	3.9	286
Spec. Ed.: Speech Correction	34.9	57.6	4.7	0.6	0.0	2.3	172
Spec. Ed.: Other	35.4	60.3	1.9	1.9	0.0	0.5	418
Stud. Counseling, Guidance	37.1	50.6	4.3	6.6	0.6	0.9	350

	Doct	Comp	LibA	CommC	Trade	Specl	N
Higher Ed. Stud. Personnel Servs.	55.9	35.3	2.9	0.0	0.0	5.9	34
TE: Adult and Continuing Ed.	56.4	33.3	0.0	7.7	0.0	2.6	39
TE: Elementary Ed	26.9	62.0	8.6	2.3	0.0	0.3	1333
TE: Junior High/ Middle School	28.6	57.1	10.7	0.0	3.6	0.0	28
TE: Early Childhood Education	27.5	47.4	6.0	18.8	0.0	0.4	739
TE: Secondary Ed	28.8	61.4	9.2	0.3	0.0	0.2	920
TE Gen. Programs: Other, Indeterm.	50.5	38.4	5.1	3.0	1.0	2.0	99
TE: Agricultural & Ag.Extens. Ed.	62.1	35.6	0.0	2.3	0.0	0.0	87
TE: Art Education	27.6	54.8	8.9	7.0	0.0	1.7	699
TE: Business/Mark & Distrib. Ed.	19.3	74.6	4.4	1.8	0.0	0.0	114
TE: Driver and Safety Ed.	18.1	75.6	3.1	1.9	1.3	0.0	160
TE: English Educ.	33.0	56.2	7.5	1.7	0.0	1.7	349
TE: Foreign Lang. Education	39.7	50.0	3.5	6.9	0.0	0.0	58
TE: Health/Nutr. Ed,School Health	24.5	62.4	7.7	5.3	0.0	0.2	625
TE: Home Economics Education	42.9	41.3	4.8	7.9	0.0	3.2	63
TE: Industrial Arts Education	46.5	52.7	0.0	0.0	0.0	0.8	129
TE: Mathematics Education	25.1	59.6	8.1	6.6	0.1	0.5	938

	Doct	Comp	LibA	CommC	Trade	Specl	N
TE: Music Education/Pedagogy	30.1	53.0	9.7	4.3	1.1	1.9	858
TE: School Phys. Ed, Coaching, etc.	24.7	60.3	10.8	3.7	0.1	0.4	1663
TE: Reading Educ.	25.6	64.1	7.3	1.7	0.0	1.4	1076
TE: Science Educ.	29.0	60.7	6.3	3.2	0.0	0.8	496
TE: Social Studs. Ed.	29.1	59.9	8.2	1.9	0.7	0.2	429
TE: Vocational Ed Technical Educ.	33.9	60.3	1.7	4.1	0.0	0.0	121
TE: Drama and Dance Educ.	34.8	52.8	4.5	6.7	1.1	0.0	89
TE: Lang. Arts, Children's Lit.	23.5	55.7	10.5	9.1	0.2	1.0	921
TE: Other, Indeterminable	22.8	59.5	8.9	7.6	0.0	1.3	79
TESOL	51.7	41.7	5.0	1.7	0.0	0.0	60
Student Teaching, Practicums, etc.	30.1	52.7	10.2	5.3	0.4	1.4	1321
Educ.: Indeterm., Missing	27.6	56.9	6.3	6.9	0.1	2.3	784
ENGINEERING							
Engineering: Intr Design, Concepts	50.4	23.7	0.6	6.6	1.4	17.4	351
Aerospace, Aeronautical Engin.	57.3	8.7	0.0	0.0	0.5	33.5	185
Agricultural Eng	73.0	23.8	0.0	3.2	0.0	0.0	63
Architectural Eng Arch. Structures	79.7	12.8	0.0	3.8	0.0	3.8	133

	Doct	Comp	LibA	CommC	Trade	Specl	N
Bio/Biomedical Engineering	81.4	11.6	0.0	2.3	0.0	4.7	43
Chemical Engin.	81.9	8.4	0.3	0.0	0.0	9.3	332
Civil, Transport Engineering	64.5	22.0	1.1	3.0	0.0	9.4	705
Computer Engin., Comput Archit.	57.5	30.0	1.4	3.6	1.8	5.7	280
Elect, Electron, Communic. Engin	53.8	24.6	2.2	6.1	2.0	11.2	1388
Engin. Mechanics/ Statics/Dynamics	51.2	26.0	1.0	8.9	0.5	12.4	920
Engin. Physics, Tech/Appl Physic	34.7	15.0	3.3	42.3	1.5	3.3	274
Engineering Science	53.2	27.7	0.0	10.6	0.0	8.5	47
Envir./Envir. Health Engin.	64.4	27.1	0.0	1.7	0.0	6.8	59
Geolog. & Geophysical Engin.	37.5	58.3	0.0	0.0	0.0	4.2	24
Industrial Engin, Production Desg	53.5	39.9	0.0	4.6	1.0	1.0	198
Engin. Economics, Mgmt.	57.7	32.1	0.0	5.8	0.0	4.4	137
Materials Engin/ Science	54.9	26.0	0.8	10.2	0.0	8.1	246
Mech. Engin., Eng Thermo/Convers.	60.9	26.8	0.3	2.5	0.4	9.1	749
Metallurgical Eng	29.3	9.8	0.0	0.0	17.1	43.9	41
Mining & Mineral Engineering	17.1	14.6	0.0	12.2	0.0	56.1	41
Naval Arch. & Marine Engineering	1.6	0.0	0.0	0.0	0.0	98.4	63

	Doct	Comp	LibA	CommC	Trade	Specl	N
Nuclear Engineer	80.6	4.5	0.0	0.0	0.0	14.9	67
Ocean/Coastal Engineering	12.5	2.5	0.0	0.0	0.0	85.0	40
Petroleum Engin/ Production	19.4	24.2	3.2	3.2	0.0	50.0	62
Surveying/Mapping Geodetic, Site	36.6	41.8	0.7	9.2	3.9	7.8	153
Systems Engineer	50.0	24.3	2.9	4.3	0.0	18.6	70
Engin. Graphics/ Drawing	33.3	25.6	1.1	31.1	0.8	8.2	379
Engin. Math/Stats	74.8	23.3	0.0	1.9	0.0	0.0	103
Engineering: Oth, Indeterminable	51.8	35.0	1.1	6.6	0.4	5.1	274
ENGINEERING TECHNOLOGIES							
Archit. Design Tech/Communicat	32.0	11.7	0.3	45.8	4.8	5.4	334
Archit. Interior Design Technol	56.8	5.4	0.0	35.1	2.7	0.0	37
Civil Technology	13.6	20.6	0.0	53.3	6.0	6.5	199
Drafting and Design Technol	13.7	18.8	0.9	48.3	16.2	2.1	234
Surveying Technol	7.0	15.5	3.9	70.5	2.3	0.8	129
Computer Technol	7.7	18.8	0.5	39.4	23.1	10.6	208
Electrical Techn	10.5	17.5	0.9	54.9	12.8	3.3	570

	Doct	Comp	LibA	CommC	Trade	Specl	N
Electronic Techn	5.8	15.1	1.5	34.6	21.1	21.9	1057
Elect/Electronic Technol.:Other	25.5	27.5	0.0	33.3	5.9	7.8	51
Electromechanical Technology	16.2	17.1	0.0	54.1	8.1	4.5	111
Instrumentation Technology	21.0	28.0	3.0	39.0	6.0	3.0	100
Heating & Cooling Tech,Solar Tech.	11.8	18.9	0.0	62.2	5.5	1.6	127
Air Pollution and Control Techn.	35.3	44.1	0.0	14.7	0.0	5.9	34
Sanitation Techn, Sanit. Chemistry	13.6	31.8	0.0	40.9	4.6	9.1	22
Water & Wastewat. Tech/Treatment	29.3	17.0	0.9	47.2	0.0	5.7	106
Envir. Control Techn.: Other	41.5	24.5	1.9	24.5	0.0	7.6	53
Industrial Techn/ Materials/Mechan	19.6	35.7	0.0	37.5	5.4	1.8	112
Manfacturing Tech Mfg. Processes	19.8	29.4	0.0	46.8	3.2	0.8	126
Plastic Technol	13.3	70.0	3.3	13.3	0.0	0.0	30
Welding Technol/ Theory/Metallurg	4.9	14.1	0.6	67.5	11.0	1.8	163
Industrial Production Tech:Oth	27.5	47.1	0.0	13.7	7.8	3.9	51
Occupat/Industrial Safety	29.7	29.7	0.0	32.4	0.9	7.2	111
Quality Control Technology	22.5	32.5	0.0	40.0	2.5	2.5	40

	Doct	Comp	LibA	CommC	Trade	Specl	N
Aeronautical Tech	18.5	7.6	1.1	50.0	2.2	20.7	92
Automotive Techn	13.3	13.3	0.0	67.6	4.8	1.0	105
Mechan Design/ Machine Technol.	27.1	31.3	0.0	35.4	1.4	4.9	144
Mechanical and Related Tech:Oth	15.3	42.4	0.0	28.8	1.7	11.9	59
Mining Technolog	21.8	0.0	0.0	76.4	0.0	1.8	55
Petroleum Technol	53.3	33.3	0.0	6.7	0.0	6.7	15
Construction Tech	34.3	24.3	0.0	31.5	7.7	2.2	181
Engineering Tech: General	8.1	32.4	0.0	59.5	0.0	0.0	37
Engin. Tech.: Oth	18.3	19.2	0.8	42.5	15.8	3.3	120
FOREIGN LANGUAGES							
African Languages	53.9	42.3	0.0	3.9	0.0	0.0	26
Chinese: Intro & Intermediate	49.5	26.3	9.5	2.1	0.0	12.6	95
Japanese: Intro & Intermediate	62.3	13.2	7.6	17.0	0.0	0.0	106
Chinese: Advanced	22.2	44.4	0.0	0.0	0.0	33.3	9
Japanese: Advanc.	60.9	8.7	30.4	0.0	0.0	0.0	23
Other Asiatic Languages	84.0	16.0	0.0	0.0	0.0	0.0	25

	Doct	Comp	LibA	CommC	Trade	Specl	N
Russian: Intro & Intermediate	61.8	22.1	7.4	2.3	0.9	5.5	217
Other Slavic Languages	88.5	7.7	3.9	0.0	0.0	0.0	26
Russian: Advanced & Lit.	78.3	13.2	8.5	0.0	0.0	0.0	106
German: Intro & Intermediate	38.3	36.0	11.8	11.2	0.3	2.5	1543
Scandinavian Lang Intro & Intermed	79.2	20.8	0.0	0.0	0.0	0.0	48
Dutch	27.3	45.5	27.3	0.0	0.0	0.0	11
German: Advanced & Lit.	48.4	39.4	7.3	2.9	0.0	2.0	246
Scandinavian Lan Advanced & Lit.	85.7	14.3	0.0	0.0	0.0	0.0	7
Germanic Langs: Other	100.0	0.0	0.0	0.0	0.0	0.0	4
Greek: Classical	16.1	35.8	29.0	0.0	0.0	19.1	162
Greek: Modern	100.0	0.0	0.0	0.0	0.0	0.0	16
Indic Languages	87.0	13.0	0.0	0.0	0.0	0.0	23
French: Intro & Intermediate	40.0	35.8	11.4	11.6	0.3	0.9	2438
Italian: Intro & Intermediate	54.7	26.5	4.4	13.0	0.0	1.5	276
Latin	53.4	34.5	11.2	0.5	0.0	0.5	223
Portuguese: Intr & Intermediate	95.7	2.1	0.0	2.1	0.0	0.0	47

	Doct	Comp	LibA	CommC	Trade	Specl	N
Spanish: Intro & Intermediate	34.8	37.2	8.9	17.1	0.4	1.7	3615
French: Advanced & Lit.	40.0	42.8	16.2	1.1	0.0	0.0	538
Italian: Advanced & Lit.	18.2	77.3	4.6	0.0	0.0	0.0	22
Portuguese: Adv. & Lit.	100.	0.0	0.0	0.0	0.0	0.0	9
Spanish: Advanced & Lit.	43.3	41.9	7.7	5.5	0.0	1.6	494
Spanish for Native Speakers	25.7	54.3	2.9	17.1	0.0	0.0	35
Native American Languages	50.0	16.7	33.3	0.0	0.0	0.0	6
Arabic: Intro & Intermediate	88.5	0.0	11.5	0.0	0.0	0.0	26
Hebrew: Intro & Intermediate	75.8	16.5	4.4	1.1	0.0	2.2	91
Arabic: Advanced	50.0	0.0	25.0	0.0	25.0	0.0	8
Hebrew: Advanced	90.0	0.0	0.0	0.0	0.0	10.0	20
Foreign Langs.: Other, Indetrm.	45.8	31.3	3.6	8.4	0.0	10.8	83
ALLIED HEALTH SERVICES							
Dental Assisting	6.0	8.7	0.5	75.5	9.2	0.0	184
Dental Hygiene	23.2	28.1	0.0	47.3	0.5	0.9	224
Dental Lab Technology	21.3	6.7	0.0	60.0	5.3	6.7	75

	Doct	Comp	LibA	CommC	Trade	Specl	N
Oral/Dental Radiology	36.5	1.6	0.0	36.5	3.2	22.2	63
Dental Services: Other	0.0	12.8	0.0	87.2	0.0	0.0	47
Cardiovascular Technology	12.0	4.0	4.0	44.0	26.0	10.0	50
Emergency Medical Ambulance	6.9	13.8	1.7	67.2	5.2	5.2	58
Emergency Medical Paramedic	15.0	18.8	3.1	53.1	4.4	5.6	160
Radiologic (Med) Technologies	10.0	15.5	0.3	33.6	31.5	9.1	330
Respiratory Therapy Technology	0.0	6.3	0.0	87.5	6.3	0.0	32
Surgical Technol	7.4	40.7	0.0	40.7	7.4	3.7	27
Diagnost/Treatment Servs: Oth	16.7	9.3	3.7	33.3	22.2	14.8	54
Blood Bank/Hematology Technol	6.4	36.5	1.6	36.5	12.7	6.4	63
Chemistry Technol	20.0	25.0	0.0	38.3	10.0	6.7	60
Clinical Animal Tech,Animal Care	35.5	3.2	0.0	61.3	0.0	0.0	31
Medical Lab Tech	5.0	15.0	0.0	66.0	13.0	1.0	100
Medical Technol	39.6	31.5	0.9	18.0	5.4	4.5	111
Microbiol Tech/ Appl. Microscopy	26.2	30.8	3.1	30.8	7.7	1.5	65
Medical Lab Tech: Other	11.5	7.7	0.0	65.4	11.5	3.9	26

	Doct	Comp	LibA	CommC	Trade	Specl	N
Alcohol/Drug Abuse Treatment	41.7	42.4	0.7	14.6	0.0	0.7	144
Community Health, Hygiene/Services	16.1	46.7	5.9	25.6	2.2	3.6	559
Mental Health Assisting	7.9	13.2	2.6	76.3	0.0	0.0	38
Mental Health Technology	17.1	14.6	2.4	58.5	7.3	0.0	41
Rehabilitation Counseling	73.5	20.6	0.0	2.9	0.0	2.9	68
Population/Family Planning	56.3	28.1	6.3	6.3	0.0	3.1	32
Sign Lang. Interpret., AMESLAN	23.3	37.5	1.7	33.3	0.0	4.2	120
Mental Health/Human Servs: Other	22.3	25.9	2.7	42.0	0.9	6.3	112
Medical Assisting	3.4	3.4	0.0	63.6	29.6	0.0	88
Medical Office Management	14.3	1.8	0.0	55.4	26.8	1.8	56
Medical Records Technology	10.5	19.4	0.0	47.8	22.4	0.0	67
Pharmacy Assist., Dispensary	27.8	5.6	0.0	55.6	5.6	5.6	18
Allied Health Servs.:Other	32.0	28.0	0.0	24.0	4.0	12.0	25
Practical Nursing	1.0	6.7	0.0	61.5	30.8	0.0	195
Opthalmic Servs. & Technology	0.0	8.9	0.0	55.5	0.0	35.6	101
Art Therapy	11.1	72.2	0.0	0.0	0.0	16.7	18

	Doct	Comp	LibA	CommC	Trade	Specl	N
Kinesiology, Exercise Physiol.	34.8	50.1	7.4	6.9	0.0	0.9	583
Music Therapy	40.6	50.0	3.1	6.3	0.0	0.0	32
Occupational Therapy	43.8	29.4	0.0	26.3	0.6	0.0	160
Physical Therapy	51.1	8.5	3.5	21.5	1.4	14.1	284
Recreational Therapy	25.5	40.4	4.3	27.7	0.0	2.1	47
Respiratory Therapy	0.0	2.2	0.0	94.5	3.3	0.0	91
Rehabil. Servs.: Other	32.4	42.9	0.0	6.7	7.6	10.5	105
Health Servs. & Sci: General	16.6	35.8	3.5	42.2	1.0	0.8	483
HPER: Intro., Gen	28.3	51.3	9.1	7.1	0.3	3.8	339
Athletic Injuries & Training	24.7	60.0	11.3	2.7	0.0	1.3	150
Adaptive Physical Education	28.3	53.3	11.7	5.8	0.0	0.8	120
Medical Terminology	14.3	11.1	0.8	56.4	15.9	1.6	126
Allied Health: Other	30.2	29.6	3.1	30.2	3.8	3.1	159

HEALTH SCIENCES

Audiology	51.5	45.2	3.0	0.3	0.0	0.0	303
Speech Pathology	46.7	50.7	0.9	1.4	0.2	0.2	641

	Doct	Comp	LibA	CommC	Trade	Specl	N
Speech-Lang Path	40.9	55.5	2.5	1.1	0.0	0.0	281
Audiol & Speech Pathology: Other	47.6	49.5	0.9	1.9	0.0	0.0	212
Clinical Anatomy	34.4	10.2	1.9	12.1	2.8	38.6	215
Clin/Med/Physiology	51.4	21.9	0.0	0.0	0.0	26.7	105
Clin. Microbio/ Medical Bacterio	54.9	18.8	0.5	6.3	3.1	16.5	224
Clinical Pathology	44.5	6.3	0.8	1.6	3.1	43.8	128
Clinical Physiology	30.3	8.0	0.8	4.0	6.0	51.0	251
Clinical Health Sci: Other	54.9	9.7	0.0	5.1	3.6	26.7	195
Chiropractic	0.0	0.0	0.0	15.0	0.0	85.0	220
Dentistry: Gener	51.1	5.4	0.0	5.1	0.0	38.4	315
Preventive Dentistry	38.1	10.3	0.0	23.8	0.0	27.8	126
Endodontics	60.0	1.8	0.0	1.2	0.0	37.0	165
Oral/Maxial Face Surgery	65.8	2.1	0.0	1.0	0.0	31.1	193
Oral Pathology	57.3	7.7	0.0	12.0	0.0	23.1	117
Orthodontics	57.7	2.9	0.0	1.0	0.0	38.5	104
Pedodontics	61.2	3.1	0.0	0.8	0.0	34.9	129

	Doct	Comp	LibA	CommC	Trade	Specl	N
Periodontics	57.0	5.0	0.0	5.0	0.0	33.0	221
Prosthodontics & Restorative Dent	59.5	4.0	0.0	0.0	0.0	36.5	425
Operative Dent/ Oral Surgery	55.2	5.6	0.0	0.0	0.0	39.2	143
Dentistry: Other	59.3	1.2	0.3	4.7	0.0	34.6	344
Health Servs./ Hospital Admin.	37.3	34.6	0.5	9.2	2.2	16.2	185
Health Care Planning	46.0	17.5	6.4	9.5	4.8	15.9	63
Medical Records Administration	54.2	4.2	0.0	37.5	0.0	4.2	24
Health Servs Admin.: Other	56.4	29.1	0.0	1.8	0.0	12.7	55
Medical Laboratory	38.5	15.4	0.0	11.5	0.0	34.6	26
Medicine: General	41.0	10.6	4.8	8.0	10.6	25.0	188
Anesthesiology	31.7	4.9	7.3	6.1	3.7	46.3	82
Dermatology	19.6	0.0	2.0	0.0	13.7	64.7	51
Emergency Medicine	30.6	2.8	0.0	0.0	11.1	55.6	36
Family Practice	48.3	6.9	0.0	0.0	0.0	44.8	29
Immunology	59.6	24.0	0.0	2.1	3.4	11.0	146
Internal Medicine	51.4	6.7	1.9	2.9	5.7	31.4	105

	Doct	Comp	LibA	CommC	Trade	Specl	N
Obstetrics & Gynecology	32.3	2.0	1.0	3.0	12.1	49.5	99
Opthamology	29.3	1.7	1.7	0.0	5.2	62.1	58
Orthopedic	13.7	3.9	2.0	2.0	15.7	62.8	51
Otorhinolaryng./ Otalaryngology	37.5	6.3	0.0	0.0	6.3	50.0	16
Pathology	46.2	4.3	0.0	8.6	3.4	37.6	117
Pediatrics	26.9	2.8	1.9	2.8	8.3	57.4	108
Physical Medicine & Rehabilitation	45.5	4.6	0.0	0.0	0.0	50.0	22
Preventive Medicine	23.3	10.0	3.3	3.3	0.0	60.0	30
Psychiatry	29.7	5.4	1.8	3.6	5.4	54.1	111
Neurology	43.7	4.6	1.2	8.1	3.5	39.1	87
Radiology	46.3	3.8	0.6	1.3	5.0	43.1	160
Surgery	35.4	5.1	0.6	2.5	8.2	48.1	158
Hematology	43.3	3.3	0.0	0.0	16.7	36.7	30
Medicine: Other	39.3	8.2	1.8	1.8	7.3	41.6	219
Nursing: General	17.3	27.4	4.4	31.3	13.8	6.0	2133
Maternal/Pediatr Nursing	9.0	21.7	3.1	26.5	34.2	5.6	558

	Doct	Comp	LibA	CommC	Trade	Specl	N
Medical/Surgical Nursing	5.5	16.0	2.3	24.8	47.8	3.6	605
Nursing Admin.	21.2	34.9	1.5	3.0	34.9	4.6	66
Psychiatric/Mental Health Nurs	18.8	25.9	3.8	20.6	25.9	5.0	320
Pub/Community Health Nursing	34.8	31.9	3.2	6.5	6.5	17.2	279
Nursing: Other, Indeterminable	22.9	30.9	3.3	21.9	13.0	8.1	1010
Optometry	0.0	14.5	4.6	1.2	0.0	79.7	345
Osteopathic Medicine	2.0	0.0	0.0	0.0	0.0	98.0	50
Pharmacy	57.7	25.0	0.2	1.2	0.3	15.6	1204
Podiatry	0.0	0.0	0.0	0.0	0.0	100.0	42
Public Health Laboratory Science	35.4	43.8	0.0	4.2	0.0	16.7	48
Epidemiology	37.2	41.0	2.6	1.3	2.6	15.4	78
Pub Health Practice/Management	37.7	39.6	3.8	11.3	0.0	7.6	53
Public Health: Other	26.8	34.2	2.4	17.1	0.0	19.5	41
Veterinary Medicine	95.6	1.6	0.0	2.8	0.0	0.0	252
Clinic, Clerkship	37.3	10.9	2.6	20.2	3.1	25.9	193
Health Sciences:	36.9	19.1	4.8	10.7	4.8	23.8	84

	Doct	Comp	LibA	CommC	Trade	Specl	N
HOME ECONOMICS							
Home Economics: General	48.6	43.2	0.0	7.5	0.7	0.0	146
Business Home Ec & Family Finance	45.4	42.3	6.2	6.2	0.0	0.0	97
HE: Family & Community Servs	7.7	76.9	0.0	11.5	0.0	3.9	26
Family/Consumer Management:Gen.	55.7	29.6	4.6	10.2	0.0	0.0	88
HE: Consumer Sci	37.7	39.9	3.7	11.9	2.2	4.5	268
HE: Food Science & Nutrition: Gen	40.2	30.6	4.8	18.2	5.3	0.9	435
HE: Food & Food Sciences	47.8	35.2	2.4	14.2	0.4	0.0	247
Dietetics/Human Nutrit. Services	32.6	33.7	3.9	19.7	7.3	2.8	178
HE: Human Nutrit.	30.3	34.6	3.5	19.0	8.9	3.8	694
HE: Food Sci./ Nutrit.: Other	68.9	22.2	0.0	8.9	0.0	0.0	45
HE: Human Envir/ Housing/Shelter	56.3	37.5	2.1	4.2	0.0	0.0	48
Household Equipment & Furniture	54.7	29.7	3.1	9.4	3.1	0.0	64
HE: Housing,Family Housing	60.3	39.7	0.0	0.0	0.0	0.0	68
HE: Individual & Family Devel:Gen	45.3	27.8	3.2	19.0	2.8	1.9	536
HE: Family Counseling	34.1	47.1	8.2	5.9	0.0	4.7	85

	Doct	Comp	LibA	CommC	Trade	Specl	N
HE: Family Relations	33.5	42.0	4.1	18.8	1.2	0.6	517
HE: Gerontologic Services	48.3	31.0	6.9	6.9	3.5	3.5	29
HE: Indiv. & Family Devel:Other	63.2	18.4	7.9	10.5	0.0	0.0	38
Textiles & Clothing: General	47.6	29.1	3.7	12.8	3.4	3.4	296
Fashion Design	33.8	17.2	4.0	19.9	8.6	16.6	151
Textile Science	34.4	24.8	3.2	12.0	1.6	24.0	125
Textiles & Cloth: Other	39.1	21.7	1.5	17.4	4.4	15.9	69
Home Economics: Missing,Indeterm	42.1	40.7	2.1	13.6	0.7	0.7	140

VOCATIONAL HOME ECONOMICS

VHE: Consumer/ Homemaking:Gen.	38.5	38.5	0.0	15.4	0.0	7.7	26
VHE: Child Development	30.5	32.4	4.3	30.9	1.3	0.7	959
VHE: Clothing & Textiles	43.8	29.4	4.4	20.6	1.9	0.0	160
VHE: Consumer Ed	27.8	46.3	1.9	11.1	13.0	0.0	54
VHE: Family/Individual Health	36.1	35.1	1.0	26.8	1.0	0.0	97
VHE: Family Living/Parenthood	25.6	30.4	4.2	33.0	3.3	3.6	336
VHE: Family Nutrition/Food	35.5	41.9	8.9	11.3	2.4	0.0	124

	Doct	Comp	LibA	CommC	Trade	Specl	N
VHE: Home Management	35.4	53.1	4.2	7.3	0.0	0.0	96
VHE: Housing/Furnishings/Equip	35.5	44.9	0.0	15.9	3.6	0.0	138
VHE: Child Care Services: Gen.	13.3	31.9	2.7	48.7	1.8	1.8	113
VHE: Child Care Management	6.3	56.3	0.0	37.5	0.0	0.0	16
VHE: Child Care Servs.: Other	0.0	35.7	7.1	50.0	7.1	0.0	14
VHE: Clothing Production/Servs	26.1	44.9	1.5	21.7	0.0	5.8	69
Commercial Garment Construct.	35.2	16.7	3.7	27.8	11.1	5.6	54
Custom Tailoring & Alteration	23.5	32.4	8.8	14.7	20.6	0.0	34
Fashion/Fabric Coordination	14.6	12.2	2.4	41.5	12.2	17.1	41
Food Production/Servs.: General	35.1	27.5	3.1	27.5	2.3	4.6	131
Baking	0.0	6.1	3.0	69.7	6.1	15.2	33
Chef/Cook	4.0	6.9	0.0	57.4	26.7	5.0	101
Food Service & Catering	24.2	22.0	0.0	43.6	5.9	4.3	186
Food Product./Services: Other	12.9	17.7	0.0	62.9	3.2	3.2	62
Floral Design	40.6	28.1	6.3	18.8	6.3	0.0	32
Home/Interior Decorating	37.3	15.7	3.9	41.2	2.0	0.0	51
Vocat. Home Econ: Other	20.4	32.7	0.0	16.3	2.0	28.6	49

INDUSTRIAL ARTS

	Doct	Comp	LibA	CommC	Trade	Specl	N
Industrial Arts: General	28.1	63.2	0.0	8.8	0.0	0.0	57
IA: Construction	22.9	4.2	2.1	68.8	0.0	2.1	48
IA: Drafting and Design	16.7	38.5	1.3	39.7	3.9	0.0	78
IA: Electricity/ Electronics	1.2	3.1	0.0	79.3	16.5	0.0	164
IA: Energy, Power	10.3	72.4	0.0	17.2	0.0	0.0	29
IA: Basic Graphics,Mech.Drawing	34.6	27.3	5.5	20.0	9.1	3.6	55
IA: Manufacturing	19.5	43.9	2.4	22.0	9.8	2.4	41

LAW

	Doct	Comp	LibA	CommC	Trade	Specl	N
Law [incl. torts contracts,etc.]	44.4	25.3	0.9	8.5	0.4	20.5	2991
Legal Assisting, Para-legal	44.1	20.3	4.5	19.3	8.9	3.0	202
Law: Other	44.2	24.2	2.0	10.2	1.6	17.9	765

ENGLISH/LITERATURE IN ENGLISH

	Doct	Comp	LibA	CommC	Trade	Specl	N
Literature: Gen., World Lit.	29.4	41.5	8.2	18.0	0.5	2.5	3554
Poetry: General/ Epic, Lyric,etc.	36.4	39.7	8.9	14.4	0.0	0.7	305
Fiction: General, Short Story, etc	39.8	39.5	5.5	13.6	0.3	1.3	893
Drama: General, Intro.	38.2	34.5	10.3	14.1	0.3	2.5	319

	Doct	Comp	LibA	CommC	Trade	Specl	N
Non-Fict. Prose, Biog., Essay	36.1	41.0	9.6	9.6	0.0	3.6	83
Classical Lit. in Translation	47.2	36.3	12.7	3.7	0.0	0.0	487
The Bible as Lit	17.2	36.9	23.0	20.5	0.8	1.6	122
Comparative Lit., Euro Lit./Transl	48.0	31.6	10.3	7.0	0.0	3.1	456
Comp. Lit.: Non-Western/3rd Wrld	27.7	40.4	17.0	12.8	0.0	2.1	94
Freshman Composition	22.4	33.8	5.4	35.4	0.6	2.5	14343
Spoken/Written Eng.,Adv.Grammar	9.1	39.4	5.6	40.9	3.3	1.8	396
Creative Writing	35.9	36.6	8.8	16.5	0.6	1.6	691
Linguistics: Gen, Semantics,Philol	44.9	44.7	6.1	3.4	0.3	0.6	790
American Literature	31.7	40.1	8.6	17.1	0.6	1.9	2445
Afro-American Literature	24.7	43.8	10.3	17.8	1.4	2.1	146
English Literature	29.8	41.4	11.2	16.4	0.3	1.0	2256
Shakespeare	42.0	38.0	11.1	8.4	0.4	0.2	560
Pub Speaking, Debate,Oral Interp	25.9	41.3	6.5	22.2	0.7	3.3	1642
Voice & Articulation	29.2	45.3	7.8	14.0	2.5	1.2	243
Technical and Business Writing	24.6	29.7	1.9	32.6	5.1	6.1	838

	Doct	Comp	LibA	CommC	Trade	Specl	N
English as a Second Language	20.0	48.9	0.0	31.1	0.0	0.0	45
Criticism, Literary History, etc.	36.2	44.3	15.4	3.4	0.7	0.0	149
Remedial English: Gen., Lang. Skills	6.3	24.0	4.7	56.7	6.9	1.4	2606
Basic Reading, Reading Improve.	6.6	27.2	4.6	59.0	1.6	1.1	1318
Remedial/Basic Speech	14.0	45.0	8.9	31.4	0.0	0.7	271
Other Determinable Lit Topics	31.3	42.8	11.9	9.7	2.0	2.4	505
Science Fiction, Fantasy	30.2	45.0	2.3	19.4	0.8	2.3	129
Folklore, Mythology	35.8	42.4	8.0	13.3	0.0	0.7	151
Lit. & Film/Film as Literature	35.7	40.0	5.7	17.1	0.0	1.4	70
Letters: Missing, Indeterminable	24.0	27.9	8.1	29.8	5.8	4.4	1576
LIBERAL/GENERAL STUDIES							
Liberal Arts & Sciences	49.3	20.1	18.8	10.4	0.0	1.4	144
General Studies	9.0	45.1	14.3	30.1	0.0	1.5	133
LIBRARY AND ARCHIVAL SCIENCES							
Library/Archival Sci: General	53.5	24.6	0.9	16.7	3.5	0.9	114
Archival Science	57.1	9.5	9.5	9.5	14.3	0.0	21

	Doct	Comp	LibA	CommC	Trade	Specl	N
Library Science	32.7	50.1	4.5	7.9	1.1	3.7	355
Museology	66.7	24.2	3.0	6.1	0.0	0.0	33
Library/Arch Sci: Other, Indeterm.	39.0	34.2	0.0	22.0	4.9	0.0	41
BIOLOGICAL SCIENCES							
Biology: General Intro, Bot+Zoo	25.5	37.9	7.0	28.0	0.5	1.2	7085
Human Biology	23.6	40.2	5.4	27.6	1.9	1.3	373
Biochemistry	56.2	26.8	4.3	4.1	0.6	8.0	835
Biophysics, Biomechanics	39.0	29.3	7.3	7.3	0.0	17.1	41
Botany: General, Introduction	34.8	37.5	6.4	20.1	0.1	1.1	882
Plant Pathology	50.9	31.6	0.0	7.0	0.0	10.5	57
Plant Physiology	57.4	31.2	4.9	1.6	0.0	4.9	122
Plant Morphology	50.0	43.3	0.0	6.7	0.0	0.0	30
Plant Taxonomy/ Systematics	53.9	37.3	2.0	4.9	1.0	1.0	102
Botany: Other, Indeterminable	37.3	43.6	7.3	9.1	0.9	1.8	110
Cell Biology	48.2	35.0	7.2	4.8	0.5	4.3	417
Molecular Biology	55.7	33.0	8.0	2.3	0.0	1.1	88
Microbiology	36.2	28.6	5.6	20.2	4.7	4.7	1354

	Doct	Comp	LibA	CommC	Trade	Specl	N
Bacteriology, Virology	41.5	46.8	2.4	6.5	2.0	0.8	248
Anatomy: Plant & Animal	34.6	30.6	5.9	17.4	2.6	8.9	862
Biometrics, Biostatistics	59.1	23.6	0.9	1.8	0.9	13.6	110
Ecology, Environ. Biology	43.9	35.4	6.9	12.2	0.2	1.3	858
Embryology, Develop. Biology	38.3	38.3	12.1	4.4	1.0	6.0	298
Endocrinology	55.8	14.3	3.9	1.3	7.8	16.9	77
Histology, Cytology	39.5	27.2	7.7	7.7	2.1	15.9	195
Aquatic/Marine Biol., Limnology	28.2	37.2	13.8	17.0	0.0	3.7	188
Neurosciences	54.2	15.8	3.3	0.8	3.3	22.5	120
Parasitology	47.9	33.6	6.4	5.0	1.4	5.7	140
Toxicology	49.0	38.8	0.0	0.0	2.0	10.2	49
Evolution	56.0	27.5	9.8	6.2	0.0	0.5	193
Field Biol/Botany Field Nat. Hist.	36.2	34.1	5.8	21.7	0.0	2.2	138
Genetics: Human, Plant,Molecular	47.5	39.3	7.3	3.3	0.5	2.2	862
Misc. Spec. Life Science: Other	34.2	38.6	8.8	8.8	2.6	7.0	114
Zoology: General, Introduction	35.3	34.8	7.4	21.1	0.2	1.2	1453

	Doct	Comp	LibA	CommC	Trade	Specl	N
Entomology	73.9	17.2	2.5	4.4	0.0	2.0	203
Pathology: Human and Animal	57.6	25.3	1.0	6.1	0.0	10.1	99
Pharmacology: Human & Animal	44.5	17.7	0.8	10.9	8.8	17.2	476
Physiology: Human & Animal	48.3	30.0	5.6	8.0	0.7	7.5	1054
Animal Behavior, Ethology	56.6	27.9	13.1	2.5	0.0	0.0	122
Ornithology	60.0	22.2	13.3	4.4	0.0	0.0	45
Zoology: Other	59.7	26.3	7.0	7.0	0.0	0.0	171
Anatomy & Physiol Applied Anatomy	14.8	30.2	6.1	37.9	8.2	2.8	1763
Plants & Envir/ Civilization	58.0	35.8	3.7	2.5	0.0	0.0	81
Pathophysiology/ Intro. Disease	26.3	35.1	7.0	14.0	6.1	11.4	114
Organic Biochem/ Physiol.Chemist.	27.9	55.0	4.3	11.4	0.7	0.7	140
Human Growth & Development	13.2	45.2	8.2	28.4	2.1	2.9	515
Life Sci: Missing Indeterminable	31.9	40.0	10.3	16.2	0.0	1.6	612

MATHEMATICS

Pre-Collegiate Math: General	17.2	42.0	5.5	33.6	1.2	0.4	2274
Arithmetic	10.5	24.9	3.1	57.6	3.9	0.0	361

	Doct	Comp	LibA	CommC	Trade	Specl	N
Pre-Colleg. Algebra	13.6	23.1	1.5	59.5	1.0	1.2	2031
Plane Geometry	18.2	33.7	4.4	39.2	1.7	2.8	181
Developmental Math	19.5	33.7	4.9	35.8	3.2	3.0	508
Liberal Arts Math Intro. Coll.Math	14.5	41.2	7.7	30.5	0.3	5.8	1667
Finite/Discrete Mathematics	34.3	37.8	4.3	20.5	1.0	2.1	580
College Algebra	22.0	34.0	4.0	38.2	0.5	1.3	2979
Pre-Calculus, Analyt. Geometry	33.7	36.3	8.2	20.1	0.2	1.6	902
Statistics, Probability	36.7	39.4	6.5	13.3	0.2	4.0	2251
Calculus, Differential Equations	44.9	30.2	6.0	12.9	0.3	5.7	5732
Calculus for Life Sci/Econ/Busin.	49.8	35.7	1.0	12.1	0.0	1.3	305
Advanced College Math Topics	50.1	35.5	6.7	3.3	0.2	4.2	818
Technical/Vocat. Math	4.4	9.5	0.3	72.6	8.5	4.8	798
Business Math: Pre-Collegiate	0.1	11.6	2.8	72.5	12.1	0.9	973
Business Math: Collegiate	34.6	41.6	1.2	17.1	1.2	4.4	592
Number Systems/ Structures	18.8	61.7	4.5	12.8	0.0	2.3	133
Math: Missing, Indeterminable	32.1	28.0	6.7	20.4	7.6	5.3	1395

	Doct	Comp	LibA	CommC	Trade	Specl	N
Air Force Sci & Training	29.0	34.9	0.0	2.0	0.2	33.9	496
Coast Guard Sci.	0.0	0.0	0.0	0.0	0.0	100.0	11
Military Sci	27.3	43.0	3.4	6.6	0.9	18.8	560
Naval Science	36.5	9.1	0.0	0.9	0.0	53.6	351
Military Science: Indeterminable	43.5	33.1	0.7	4.8	0.0	17.9	145
Military Technols	22.2	51.9	0.0	0.0	0.0	25.9	27

INTER/MULTI-DISCIPLINARY

	Doct	Comp	LibA	CommC	Trade	Specl	N
Gen./Natural/ Integrated Sci	29.2	34.6	8.4	23.0	3.6	1.3	610
Gen. Laboratory, Instrumentation	22.2	25.0	25.0	22.2	5.6	0.0	36
Intro. Technol., Applied Science	7.4	46.3	0.0	37.0	7.4	1.9	54
Clinical Pastoral Care	9.1	13.0	5.2	1.3	2.6	68.8	77
Humanities: Gen.	27.0	33.5	9.9	27.0	1.2	1.4	1491
Humanities & Social Science	27.5	45.1	13.1	9.8	0.0	4.6	153
Humanities & Arts	24.1	31.7	13.8	24.8	0.0	5.5	145
Popular Culture	36.5	42.4	2.4	16.5	2.4	0.0	85
Peace Studies, Conflict Resolut	40.7	34.6	6.2	14.8	0.0	3.7	81

	Doct	Comp	LibA	CommC	Trade	Specl	N
Women's Studies	35.7	42.6	6.3	14.5	0.0	1.0	510
Future Studies, Futuristics	43.1	30.8	18.5	4.6	0.0	3.1	65
Sci, Technol, & Society	53.7	36.4	4.8	3.1	0.0	2.0	354
Environmental Studies/Science	37.6	38.8	6.2	13.8	0.3	3.3	662
Sports/Leisure Studies	43.5	44.9	4.1	6.8	0.0	0.7	147
Interdisc. Studies: Other	32.7	39.1	11.9	12.9	1.5	2.0	202

RECREATION

	Doct	Comp	LibA	CommC	Trade	Specl	N
Recreation/Parks, Community Recrea	29.5	42.3	2.7	24.8	0.0	0.7	149
Outdoor Recreat., Camp Counseling	28.6	43.2	3.0	24.1	0.0	1.1	266
Parks and Recreation Management	26.7	36.1	4.1	32.0	0.0	1.1	266
Water Recreation, Aquatics Mgmnt.	52.0	28.0	4.0	12.0	4.0	0.0	25
Sports Officiat., Umpiring,Referee	9.4	40.3	6.8	43.5	0.0	0.0	191
Recreat. Leadership	17.7	50.0	1.5	30.9	0.0	0.0	68
Recreat. Practicum,Field Exper.	28.8	40.9	3.0	27.3	0.0	0.0	66
Recreat./Parks: Other, Indeterm.	35.7	48.0	4.1	10.2	0.0	2.0	98

	Doct	Comp	LibA	CommC	Trade	Specl	N
BASIC SKILLS							
Basic Skills: Gen	10.0	52.0	4.0	30.0	2.0	2.0	50
Academic/Intellectual Skills	12.5	44.4	2.8	31.7	1.7	6.9	360
Job Seeking/ Changing Skills	12.2	24.4	2.7	48.5	11.5	0.8	262
Career Exploration	16.7	31.9	1.4	48.6	1.4	0.0	72
Typing as Basic Skill	25.3	56.1	1.0	15.7	0.5	1.5	198
HEALTH-RELATED ACTIVITIES							
Health & Phys. Practice/Hygiene	12.3	44.5	4.0	38.5	0.3	0.4	1856
Sex & Birth-Related Practices	43.8	21.4	1.1	27.0	3.4	3.4	89
Mental Hygiene	12.4	65.7	12.4	8.6	1.0	0.0	105
Aerobics, Jogging Body-Building	17.3	32.0	3.4	44.5	0.2	2.6	1831
First Aid, Life-Saving, Safety	18.1	43.2	4.6	31.7	1.5	0.9	1383
Drug/Alcohol Abuse Prevention	22.1	60.0	3.5	12.4	0.0	2.1	145
Adapted Physical Education	31.4	41.2	5.9	21.6	0.0	0.0	51
INTERPERSONAL SKILLS							
Interpers. Skills Applied Psychol.	8.5	21.3	3.5	57.3	6.8	2.5	708

	Doct	Comp	LibA	CommC	Trade	Specl	N
Relations: Love, Sex, Job	26.1	20.6	29.4	17.8	5.6	0.6	180
Assertiveness, Leadership	27.1	31.3	7.3	28.1	0.0	6.3	96

LEISURE AND RECREATIONAL ACTIVITIES

	Doct	Comp	LibA	CommC	Trade	Specl	N
Leisure & Recre. Activities: Gen.	12.4	45.2	8.8	32.4	0.4	0.8	250
Leisure & Recreational Crafts	20.4	44.9	2.0	32.7	0.0	0.0	49
Games	15.5	54.1	4.7	25.7	0.0	0.0	148
Physical Educat. Activities	19.7	39.6	6.2	30.6	1.0	2.8	18279
Self-Defense, Karate,Judo,etc.	20.7	32.5	2.9	42.0	0.4	1.6	517
Equestrian Activs	33.1	37.1	4.0	25.8	0.0	0.0	124
Yoga, Meditation	27.3	32.2	2.5	38.0	0.0	0.0	121
Scuba/Skin Diving	27.3	36.0	3.7	31.1	0.6	1.2	161
Fishing, Angling	20.7	51.7	3.5	24.1	0.0	0.0	29
Riflery, Pistol (non-military)	25.5	47.3	0.0	23.6	1.8	1.8	55
Recreat/Leisure Activs.: Other	30.5	24.2	9.5	32.6	0.0	3.2	95
Varsity Ath.: Football/Basketb	16.1	43.3	6.0	27.2	0.0	7.4	298
Varsity Ath.: Oth Sports	16.9	34.4	11.8	33.3	1.1	2.5	279

	Doct	Comp	LibA	CommC	Trade	Specl	N
PERSONAL AWARENESS							
Self-Awareness, Human Potential	10.7	27.6	11.8	45.0	3.2	1.6	373
Coping Skills, Stress Mngmnt.	18.6	37.1	10.0	31.4	2.9	0.0	70
Personal Decision Making	29.3	31.7	4.9	29.3	4.9	0.0	41
Pers. Appearance, Charm, Grooming	10.2	15.9	3.7	50.8	19.1	0.4	246
Personal Values, Life Styles	6.3	53.1	6.3	12.5	21.9	0.0	32
PHILOSOPHY							
Intro. Philosophy	24.4	40.1	9.4	23.8	0.2	2.1	1996
Ethics, Moral Phil.	30.9	38.8	10.5	11.7	2.8	5.3	864
Logic, Formal Reasoning	37.0	37.9	6.8	16.1	0.3	2.0	1014
Aesthetics, Phil of Art	30.3	40.3	16.8	7.6	1.7	3.4	119
Metaphysics, Epistemology	43.4	44.0	5.7	4.4	0.0	2.5	159
Philosophy of Language	56.9	23.5	9.8	5.9	0.0	3.9	51
Hist. of Philos.: General	23.0	37.8	22.2	11.9	0.0	5.2	135
Ancient & Mediev Philosophy	41.3	36.3	15.6	6.3	0.0	0.6	160
Phil: Rennais. through 19th Cnt	42.1	36.5	15.1	4.8	0.0	1.6	126

	Doct	Comp	LibA	CommC	Trade	Specl	N
Contemp. Phil.: Analyt, Exist, etc	36.1	42.2	16.9	3.6	0.0	1.2	166
Non-Western Phil	46.2	36.9	10.8	6.2	0.0	0.0	65
Philosophy of Ed	34.3	49.7	9.1	2.8	0.0	4.2	143
Phil. of Science	46.5	36.4	11.1	3.0	0.0	3.0	99
Philosophy of Religion	31.3	34.4	10.7	16.0	0.0	7.6	131
Philos.: Indeterminable, Missing	30.5	41.2	10.7	12.7	0.4	4.5	908

RELIGIOUS STUDIES

	Doct	Comp	LibA	CommC	Trade	Specl	N
Religion: Gen., Comparative	22.5	42.3	17.6	12.8	2.0	2.7	1032
Non-Western Relig	36.5	38.9	19.1	4.8	0.0	0.8	126
Mormon Texts and History	83.7	0.0	0.0	16.3	0.0	0.0	123
Christianity: all Topics	16.2	32.8	33.1	7.6	1.3	8.9	314
Judaism: all Topics	46.8	30.7	16.1	3.2	0.0	3.2	62
Religious Ethics	8.3	65.3	9.7	5.6	1.4	9.7	72
Philosophy & Religion: Other	21.7	55.3	14.3	3.1	1.2	4.4	161

THEOLOGY

	Doct	Comp	LibA	CommC	Trade	Specl	N
Biblical Langs.: Seminary/Divin.	8.8	18.4	27.9	1.5	0.7	42.7	136

	Doct	Comp	LibA	CommC	Trade	Specl	N
Bible Studies, Sacred Scripture	8.0	30.3	25.5	7.0	1.9	27.3	2652
Missionary Studies, Evangelism	4.2	10.0	20.9	7.9	2.1	55.0	191
Religious Education	4.2	23.8	15.0	1.1	2.1	53.8	379
Religious Music	4.5	31.5	24.7	3.4	2.3	33.7	89
Theological Studies	9.1	20.4	18.7	3.9	2.5	45.4	1277
Christian Living/ Activities	5.7	35.8	30.6	6.6	0.4	21.0	229
Theology: Other	14.4	37.7	11.4	3.0	1.8	31.7	167
PHYSICAL SCIENCES							
Physical Sci.: General	19.7	44.2	5.8	28.4	0.4	1.6	1735
Astronomy	41.8	34.6	4.5	17.2	0.2	1.8	1270
Astrophysics	33.3	33.3	5.6	11.1	0.0	16.7	36
Atmospheric Sci., Meteorology	49.9	35.8	1.5	10.0	0.0	2.8	469
Chemistry: Gen.	37.8	33.0	4.9	19.5	1.0	3.7	6643
Analytical Chem.	38.1	44.8	6.0	9.2	0.5	1.5	619
Inorganic Chem.	20.4	36.3	9.3	31.0	0.4	2.7	452
Organic Chemistry	52.9	33.0	5.7	6.9	0.2	1.3	2646

	Doct	Comp	LibA	CommC	Trade	Specl	N
Pharmaceutical Chemistry	65.2	23.9	0.0	0.9	0.0	10.0	230
Physical Chem.	54.7	32.3	8.1	0.7	0.0	4.2	430
Chemistry: Other Determ. Topics	37.4	46.0	1.2	12.1	0.6	2.9	174
Chem: Research, Independ. Study	46.4	47.0	6.6	0.0	0.0	0.0	151
Applied Chemistry Lib Arts Chem	28.3	37.2	9.3	24.0	1.2	0.0	258
Chem. for Nursing & Allied Health	29.0	30.7	3.2	22.6	4.8	9.7	62
Chem.: Missing, Indeterminable	37.0	43.8	6.3	9.4	1.6	2.1	192
Geology: General	40.1	39.7	5.3	13.6	0.0	1.3	2101
Geochemistry	52.4	38.1	2.4	0.0	0.0	7.1	42
Geophysics & Seismology	44.0	32.1	3.7	14.7	0.0	5.5	109
Paleontology	54.3	31.8	5.4	7.0	0.0	1.6	129
Mineralogy, Petrology	47.7	38.3	8.1	4.0	0.0	2.0	149
Geological Sci.: Other	39.7	39.7	8.5	12.1	0.0	0.0	141
Metallurgy	9.5	27.0	0.0	43.2	12.2	8.1	74
Oceanography	37.4	32.0	3.2	14.2	0.0	13.3	444
Earth Science	29.1	52.1	3.2	14.6	0.3	0.7	687

	Doct	Comp	LibA	CommC	Trade	Specl	N
Misc. Physical Sciences: Other	65.6	9.4	9.4	3.1	0.0	12.5	32
Physics: General Introductory	42.1	31.3	5.4	14.3	0.9	6.1	4558
Atomic/Nuclear/ Molecular Physic	50.0	20.6	9.8	6.9	5.9	6.9	102
Optics	57.7	15.4	5.8	11.5	0.0	9.6	52
Acoustics, Physics of Music	42.3	42.3	5.8	3.9	0.0	5.8	52
Thermal Sci/Thermodynamics	62.1	21.6	3.9	2.6	0.4	9.5	232
Elect & Magnet.: Intermediate	53.6	25.6	4.8	5.6	0.0	10.4	125
Modern Physics	71.2	17.3	3.9	0.0	0.0	7.7	52
Classical Mechanics: Intermed.	64.7	22.1	4.4	2.9	0.0	5.9	68
Quantum Physics	53.1	37.5	3.1	3.1	0.0	3.1	32
Physics: Other, Indeterminable	41.0	38.3	4.7	7.8	1.2	7.0	256
Planetary Science	28.0	16.0	4.0	0.0	0.0	52.0	25
Physical Science: Other	33.9	24.2	11.3	27.4	0.0	3.2	62
SCIENCE TECHNOLOGIES							
Biological Technologies: All	9.5	66.7	9.5	9.5	0.0	4.8	21
Nuclear Technologies: All	31.7	7.3	0.0	26.8	31.7	2.4	41

	Doct	Comp	LibA	CommC	Trade	Specl	N
Chemical Technols	27.3	15.2	0.0	42.4	3.0	12.1	33
Metallurgical Technologies	26.3	10.5	0.0	7.9	52.6	2.6	38
PSYCHOLOGY							
Psychology: Gen. Behavioral Sci.	22.4	33.1	6.9	33.7	1.4	2.5	8123
Clinical Psychol.	31.8	45.5	5.8	5.8	0.6	10.5	343
Cognitive Psych.	44.0	41.5	9.2	1.3	1.3	2.7	477
Counseling & Community Psychol.	26.5	43.7	15.8	5.6	0.5	7.9	215
Developmental Psych.	25.7	46.9	8.6	16.0	0.7	2.2	2556
Experimental Psy, Research Methods	40.6	43.6	9.6	3.4	0.0	2.8	500
Industrial & Org Psych.	31.9	48.0	4.9	7.8	1.5	5.9	204
Personality Psych	36.3	38.8	8.3	13.2	1.5	1.8	1311
Abnormal Psychol. Psy of Deviance	31.6	48.5	8.6	9.3	0.3	1.8	1224
Human Sexuality/ Sexual Behavior	35.2	42.4	0.3	17.1	1.3	3.6	304
Physiological Psy Psychobiology	44.5	43.1	6.2	3.8	0.3	2.1	339
Psycholinguistics Psych & Language	42.4	54.4	3.3	0.0	0.0	0.0	92
Psychometrics, Psych Testing	30.9	58.0	8.2	0.0	0.5	2.4	207

	Doct	Comp	LibA	CommC	Trade	Specl	N
Psychopharmacol., Drugs & Behavior	40.8	51.0	2.0	0.0	0.0	6.1	49
Quantitative Psy. Psych Statistics	43.9	43.6	8.0	2.8	0.4	1.4	287
Social Psych, Environmental Psy	38.8	38.2	7.7	13.0	0.6	1.7	1605
History of Psych	25.8	60.6	12.9	0.0	0.0	0.8	132
Psych Field Work	41.4	29.0	4.1	6.9	0.0	18.6	145
Psych Seminars, Colloquia, etc.	46.9	34.6	10.5	4.8	0.0	3.2	373
Psych: Missing, Indeterminable	36.6	35.2	6.5	14.5	0.9	6.4	643
PROTECTIVE SERVICES							
Correctional Administration	6.7	46.7	0.0	44.4	0.0	2.2	45
Corrections, Penology	10.0	48.1	1.0	38.8	0.0	2.1	289
Admin. of Justice Court Administr.	20.2	26.2	2.0	50.8	0.0	0.8	248
Criminal Justice Studies	28.1	42.3	2.6	25.9	0.0	1.1	274
Criminalistics, Evidence	7.2	23.4	0.8	65.7	1.1	1.9	376
Forensic Studies/ Chem/Bio/Med/Sci	5.9	41.2	0.0	47.1	2.9	2.9	34
Law Enforcement: Gen Police Train	10.0	24.3	0.2	61.4	0.9	3.2	568
Law Enforcement/ Police Administr	14.5	29.0	1.0	52.5	0.0	3.0	200

	Doct	Comp	LibA	CommC	Trade	Specl	N
Security Services	4.4	26.1	0.0	56.5	0.0	13.0	23
Internships, Field Experience	12.3	49.1	0.0	38.6	0.0	0.0	57
Criminal Law & Procedure:Police	18.8	29.0	0.7	48.6	0.0	2.9	138
Police/Community Relations	7.4	26.5	0.0	64.7	0.0	1.5	68
Traffic Law/Contr Management	6.3	24.2	0.0	67.4	2.1	0.0	95
Juvenile Justice	15.3	31.5	0.8	49.2	0.0	3.2	124
Narcotics, Drug Enforcement	13.6	18.2	4.6	50.0	0.0	13.6	22
Criminal Justice: Other & Indeterm	20.3	39.0	1.7	35.6	0.0	3.4	59
Fire Control and Safety Technol	0.0	6.3	0.0	93.8	0.0	0.0	80
Fire Protection Administration	6.5	3.2	0.0	90.3	0.0	0.0	31
Firefighting	4.9	0.0	0.0	95.1	0.0	0.0	41
Fire Protection: Other, Indeterm.	0.0	0.0	0.0	100.0	0.0	0.0	26
Protect. Servs.: Missing, Indet.	0.0	33.3	0.0	66.7	0.0	0.0	15

PUBLIC AFFAIRS

	Doct	Comp	LibA	CommC	Trade	Specl	N
Community Servs., Organizations	41.3	38.3	3.6	13.3	0.0	3.6	196
Intl Organizations/Service	50.0	37.5	8.3	2.1	0.0	2.1	48

	Doct	Comp	LibA	CommC	Trade	Specl	N
Public Administration/Mngmt	51.7	40.8	2.0	2.5	0.5	2.5	441
Public Policy Studies	57.1	24.8	9.6	5.1	0.0	3.5	198
Public Works (Sanit, Utils.)	46.2	25.6	0.0	15.4	7.7	5.1	39
Social Work: Gen	36.5	47.4	10.0	5.5	0.0	0.7	1001
Medical Social Work	31.8	54.6	4.6	6.8	0.0	2.3	44
Social Welfare	41.3	52.2	4.4	1.1	0.0	1.1	92
Social Work Practicums	52.2	40.2	4.4	2.2	0.0	1.1	92
Research in Soc. Work/Welfare	54.1	35.1	5.4	0.0	0.0	5.4	37
Social Work: Oth	39.0	52.0	5.0	2.0	0.0	2.0	100
Public Affairs: Other, Indeterm.	49.2	27.0	3.2	15.9	0.0	4.8	63
SOCIAL SCIENCES							
Social Sciences: General	12.0	25.1	8.1	53.1	0.5	1.2	774
Anthropol.: Gen, Ascent of Man	46.2	34.5	6.5	11.2	0.4	1.2	1568
Cultural Anthrop, Ethnology	32.3	36.4	6.3	20.8	1.0	3.2	1002
Physical/Biolog/ Anthropology	42.5	24.5	1.6	31.3	0.0	0.0	367
Non-Western Peoples & Cultures	43.5	34.8	6.5	15.2	0.0	0.0	46

	Doct	Comp	LibA	CommC	Trade	Specl	N
Native Amer (N&S) Peoples & Cult.	45.7	37.2	5.3	11.7	0.0	0.0	94
Lang, Linguistics and Culture	49.1	43.9	3.5	1.8	0.0	1.8	57
Anthro Readings, Research	88.6	11.4	0.0	0.0	0.0	0.0	70
Anthropology:Oth, Indeterminable	36.2	50.0	7.7	3.9	0.0	2.3	130
Archaeology	55.3	30.6	7.2	5.1	0.0	1.7	235
Criminology	28.6	48.0	6.6	14.6	0.0	2.2	789
Demography	38.9	48.2	5.6	6.2	0.0	1.2	162
ECONOMICS							
Economy & Society	29.3	39.4	8.0	20.7	1.2	1.4	502
Economics: Princs	31.2	36.4	5.4	23.2	0.8	3.1	6006
Intermed. Microec	50.7	37.0	4.6	5.2	0.0	2.5	732
Intermed. Macroec	51.7	36.2	7.6	2.8	0.0	1.7	354
Economic Stats	47.4	47.4	4.7	0.0	0.0	0.5	192
Econometrics, Forecasting	64.4	28.8	6.8	0.0	0.0	0.0	59
Public Finance	57.8	34.5	6.0	1.7	0.0	0.0	116
Interntl Econon/ Finance/Trade	53.0	32.2	9.6	3.5	0.0	1.7	115

	Doct	Comp	LibA	CommC	Trade	Specl	N
Monetary Theory, Fiscal Policy	40.6	53.1	1.6	0.0	0.0	4.7	64
Environ & Nat. Resource Econom	45.9	40.1	7.0	2.6	0.0	4.5	157
Labor and Human Resource Econ	45.8	42.9	8.9	1.2	0.0	1.2	168
Money & Banking	39.5	46.9	5.6	5.0	0.7	2.3	605
History of Econ Thought/Doctrine	36.8	49.1	12.3	0.0	0.0	1.8	57
Comparative Econ	37.9	41.4	14.9	1.2	1.2	3.5	87
Econ Development	50.8	29.5	13.1	3.3	0.0	3.3	61
Economics: Other Determinable Top	45.0	34.9	6.2	4.6	1.0	8.5	307
Economics: Missing	49.0	26.5	18.1	3.2	0.7	2.6	155
GEOGRAPHY							
Geography: Gen, Combined Topics	29.8	47.5	4.4	15.7	0.5	2.2	1972
Remote Sensing, Anal.Cartography	46.6	48.9	0.0	2.3	1.1	1.1	178
Cultural Geograph	27.3	49.8	2.9	18.5	1.5	0.0	205
Physical Geograph	36.0	40.8	2.1	21.1	0.0	0.0	677
Economic Geograph	42.3	40.4	3.2	12.2	1.3	0.6	156
Urban Geography	43.3	45.6	2.2	6.7	2.2	0.0	90

	Doct	Comp	LibA	CommC	Trade	Specl	N
Geog. of North America	35.4	49.0	2.3	12.9	0.0	0.3	302
Geog. of Europe, USSR	37.7	43.4	1.9	15.1	0.0	1.9	53
Geog. of Africa, Near East	34.4	53.1	3.1	6.3	0.0	3.1	32
Geog. of Asia, Pacific	37.5	37.5	0.0	18.8	0.0	6.3	32
Geog. of Latin America	40.0	55.0	2.5	2.5	0.0	0.0	40
Geography: Other	59.4	34.8	1.5	1.5	0.0	2.9	69

HISTORY

	Doct	Comp	LibA	CommC	Trade	Specl	N
World Hist/West Civilization	19.9	39.8	9.5	27.5	0.3	3.0	4614
Ancient History	31.5	44.9	11.7	9.6	0.2	2.3	575
Intell/Cult Hist	29.6	51.5	5.2	9.0	0.9	3.9	233
Economic/Business History	41.9	37.2	11.6	7.6	0.6	1.2	172
History of Relig.	19.6	29.1	12.3	11.4	2.3	25.5	220
Historiography, Research Meths.	34.8	43.8	13.5	2.8	0.0	5.1	178
Hist of Sci, Math & Technology	43.0	40.9	8.8	3.6	0.0	3.6	193
U.S. History Surveys	20.4	39.4	6.1	33.0	0.2	0.8	6483
U.S. Hist: Topics thru Civil War	34.1	48.1	13.4	3.9	0.0	0.6	337

	Doct	Comp	LibA	CommC	Trade	Specl	N
U.S. Hist: Topics Since Civil War	45.7	39.7	10.1	4.0	0.0	0.5	199
U.S. Cult, Intell History	42.5	35.5	13.2	4.8	0.4	3.5	228
Hist of Indiv. States, Regions	29.1	42.0	8.3	19.6	0.0	1.0	578
Afro-American History	21.5	45.3	7.0	25.0	0.4	0.8	256
U.S. Hist: Other	33.4	45.5	13.0	3.6	0.5	4.1	440
Euro Hist: Dark & Middle Ages	36.8	41.4	18.6	2.7	0.0	0.5	220
Euro Hist: Ren. to 1789	35.0	43.1	15.5	4.3	0.2	1.9	420
Euro Hist since 1789	34.8	39.2	13.2	7.3	0.5	4.9	589
Hist of Individ Euro Countries	37.9	40.5	14.6	6.0	0.5	0.5	417
Euro Hist: Other	34.7	37.4	14.8	8.2	0.3	4.6	366
Asian History	39.5	35.2	13.3	10.2	0.4	1.6	256
African History	35.6	35.6	14.4	13.5	0.0	1.0	104
Latin American History	42.5	39.5	8.5	9.5	0.0	0.0	200
Hist of Other World Regions	40.3	43.4	5.4	5.4	0.0	5.4	129
History: Other, Unknown	36.3	27.3	9.9	13.8	0.6	12.1	842

	Doct	Comp	LibA	CommC	Trade	Specl	N
POLITICAL SCIENCE							
International ReLations	42.9	33.9	8.9	6.0	0.0	8.3	531
Polit. Sci.: Introduction	31.9	36.8	6.5	23.3	0.4	1.2	1048
U.S. Govt & Politics	24.9	38.8	5.6	28.7	0.2	1.8	4104
U.S. Constit.Law/ History/Politics	37.3	36.0	9.0	11.6	0.2	6.0	622
Polit. Theory/ Philos, Ideology	43.1	40.1	12.5	2.3	0.0	1.9	471
Comparative Govt	38.1	36.0	9.1	9.8	0.4	6.6	286
European Govt & Politics	43.2	45.9	9.6	0.7	0.0	0.7	146
Non-West. Govt & Politics	58.8	32.4	5.9	0.6	0.0	2.4	170
Methodology, Res. Design	49.0	39.8	5.1	1.0	0.0	5.1	98
Polit. Behavior/ Elections,Voters	45.6	40.4	10.3	1.5	0.4	1.8	272
U.S. State, Local Gov't & Politics	24.6	40.1	7.3	27.2	0.0	0.8	658
U.S. Foreign Policy, Diplomacy	44.3	35.4	15.5	0.9	0.0	4.0	226
Pol Sci: Other Determinable Top	47.5	34.5	7.9	6.5	0.0	3.6	139
Pol Sci: Indeterm Missing	42.1	28.5	8.9	16.9	1.0	2.7	302

	Doct	Comp	LibA	CommC	Trade	Specl	N
SOCIOLOGY							
Sociology: Intro, Principles	22.3	36.9	6.2	31.4	1.3	1.9	5238
Social Instits: Family,Marriage	23.1	42.2	10.3	22.6	0.6	1.2	1209
Soc of Race, Minority Groups	26.9	47.8	8.8	15.3	0.0	1.1	464
Organizat. Sociology	39.7	44.9	9.6	5.1	0.0	0.6	156
Soc of Aging, Health,Youth,etc	32.4	53.4	5.7	5.7	1.2	1.6	247
Social Change, Collect. Behav.	46.4	38.4	8.4	5.9	0.4	0.4	237
Social Theory	25.7	57.9	13.8	1.2	0.0	1.5	261
Comparative Soc, 3rd World Soc.	61.7	23.4	4.3	6.4	0.0	4.3	47
Soc Problems, Deviance,Disorg.	25.9	41.7	7.0	24.0	0.4	1.0	1392
Sociolog Research Methods	31.1	55.4	11.0	1.9	0.0	0.6	318
Community/Rural/ Urban Sociology	29.4	47.6	9.5	12.5	0.0	1.0	296
Social Stratif., Inequality,Povty	44.4	37.9	11.8	4.6	0.7	0.7	153
Small Groups, Socialization	31.6	48.9	10.5	6.0	0.0	3.0	133
Applied Sociology Internships	22.8	42.1	26.3	8.8	0.0	0.0	57
Sociology:Missing	34.9	38.9	7.1	16.5	2.1	0.6	777

	Doct	Comp	LibA	CommC	Trade	Specl	N
Urban Studies	49.1	38.7	7.3	2.8	0.0	2.0	493
Social Statistics	42.2	47.9	5.0	3.3	0.0	1.7	121
Social Sci.: Oth, Indeterminable	40.1	38.6	6.4	10.2	2.3	2.3	344
CONSTRUCTION TRADES							
Brickmasonry, Stonemasonry	9.5	4.8	0.0	81.0	4.8	0.0	21
Carpentry	7.7	4.8	0.0	73.1	14.4	0.0	104
Electric & Power Installation	5.0	20.0	0.0	52.5	12.5	10.0	40
Electrician	3.5	3.5	0.0	44.1	49.0	0.0	143
Building & Property Maintenance	33.3	0.0	0.0	52.4	9.5	4.8	21
Misc. Construction Trades	1.3	10.4	0.0	63.6	24.7	0.0	77
Plumbing, Pipefitting, Steamfit	4.4	0.0	0.0	87.0	8.7	0.0	23
Plumbing	6.9	3.5	0.0	69.0	20.7	0.0	29
MECHANICS AND REPAIRERS							
Elec/Electronic Equip Repair:Gen	2.1	6.3	0.0	29.9	27.1	34.7	144
Communication Electron Repair	0.7	1.4	0.0	36.4	52.5	9.1	143
Computer Electron Repair	0.0	6.5	0.0	48.4	45.2	0.0	31

	Doct	Comp	LibA	CommC	Trade	Specl	N
Industrial Electronics	1.5	17.7	0.0	61.8	19.1	0.0	68
Heating,AC & Refrigerat:General	1.5	1.5	0.0	72.5	24.6	0.0	69
Cooling & Refrig	0.0	0.0	0.0	55.4	39.2	5.4	74
Heating & Air Conditioning	1.8	5.5	0.0	58.2	34.6	0.0	55
Heating, AC & Refriger: Other	0.0	0.0	0.0	55.6	44.4	0.0	18
Industrial Equip Maint & Repair	5.9	2.9	0.0	64.7	23.5	2.9	34
Electromech,Hydraul Inst Rep.	3.0	9.1	0.0	84.9	0.0	3.0	33
Misc. Mechanics & Repairers: Oth	37.5	25.0	0.0	18.8	12.5	6.3	16
Stationary Energy Sources	5.3	21.1	0.0	52.6	15.8	5.3	19
Vehicle/Mob Equip Mechanics: Gen.	0.0	30.8	0.0	53.9	15.4	0.0	26
Aircraft Mechan, Frame,Powerplant	7.4	4.9	0.0	66.4	16.4	4.9	122
Auto Body Repair	0.0	3.1	0.5	41.3	54.3	0.9	223
Automotive Mechanics	0.8	4.2	0.5	61.9	30.5	2.0	738
Diesel Engine Mechanics	0.0	1.9	0.0	84.5	11.0	2.6	155
Small Engine Repair	0.0	3.1	0.0	31.3	65.6	0.0	32
Vehicle etc. Mechanics: Other	0.0	5.7	0.0	68.2	26.1	0.0	88
Mechanics & Repairers: Other	0.0	11.8	0.0	82.4	5.9	0.0	17

	Doct	Comp	LibA	CommC	Trade	Specl	N
PRECISION PRODUCTION							
Drafting: Gen, Technical Draft.	6.4	15.0	0.3	65.3	12.7	0.3	346
Architectural Draft/Draw/Rendr	14.0	12.3	0.7	63.0	6.9	3.1	292
Civil/Structural Drafting	7.8	17.2	4.7	62.5	1.6	6.3	64
Electrical/Electronics Drafting	2.4	9.8	0.0	61.0	14.6	12.2	82
Mechanical Draft	9.5	24.5	0.0	57.1	4.1	4.8	147
Drafting: Other	2.1	6.4	0.0	78.7	12.8	0.0	47
Graphic & Print. Communic.: Gen.	24.6	47.8	0.7	16.7	5.1	5.1	138
Commercial Art	9.9	15.1	2.4	61.8	9.0	1.9	212
Commercial Photog	18.6	23.0	0.9	23.9	10.6	23.0	113
Typesetting, Composition, Typog.	20.5	24.1	1.2	31.3	18.1	4.8	83
Lithography, Platemaking	14.4	42.3	1.0	27.8	3.1	11.3	97
Photographic Lab & Darkroom	3.2	38.7	0.0	32.3	25.8	0.0	31
Printing Press Operations	6.5	41.9	0.0	29.0	22.6	0.0	31
Silk Screen Making & Printing	20.3	29.7	6.3	32.8	1.6	9.4	64
Graphic & Printing Comm: Other	12.1	37.9	1.5	27.3	16.7	4.6	66

	Doct	Comp	LibA	CommC	Trade	Specl	N
Leatherworking & Upholstery	16.7	38.9	0.0	44.4	0.0	0.0	18
Meatcutting	17.4	8.7	0.0	56.5	4.4	13.0	23
Precision Metal Work: General	14.7	30.9	0.0	45.6	4.4	4.4	68
Machine Tool/Machine Shop	3.9	8.5	0.0	74.1	11.6	1.9	259
Metal Fabrication	18.2	36.4	0.0	36.4	4.6	4.6	22
Sheet Metal	3.3	8.3	0.0	80.0	8.3	0.0	60
Tool & Die Making	3.0	21.2	0.0	72.7	3.0	0.0	33
Welding	1.7	6.1	2.1	65.3	24.1	0.7	424
Jewelry Design/ Fabric/Repair	5.7	28.6	0.0	25.7	0.0	40.0	35
Precision Work: Assorted Maters.	7.1	50.0	0.0	42.9	0.0	0.0	14
Woodworking: Gen.	32.1	55.4	0.0	9.8	2.7	0.0	112
Furniture Making	25.0	41.7	0.0	33.3	0.0	0.0	24
Millwork/Cabinet-Making	13.6	18.2	0.0	31.8	36.4	0.0	22
Woodworking: Oth	21.4	71.4	0.0	3.6	3.6	0.0	28

TRANSPORTATION

	Doct	Comp	LibA	CommC	Trade	Specl	N
Air Transport:Gen Fund. Aviation	20.0	20.0	4.4	37.8	6.7	11.1	45
Airplane Piloting & Navigation	15.0	14.3	0.0	39.5	0.8	30.5	266

	Doct	Comp	LibA	CommC	Trade	Specl	N
Aviation Mangmnt/ Laws/Regs/Safety	21.4	21.4	0.0	26.2	4.8	26.2	42
Air Traffic Control	25.0	18.8	0.0	50.0	0.0	6.3	16
Flight Attendants	0.0	20.0	0.0	73.3	0.0	6.7	15
Air Transport: Other	0.0	28.6	0.0	64.3	0.0	7.1	14
Vehicle & Equip. Operation: All	8.7	17.4	0.0	34.8	39.1	0.0	23
Deep Water Diving	3.3	16.7	0.0	36.7	0.0	43.3	30
Sailors & Deckhands	0.0	4.0	0.0	12.0	76.0	8.0	25
Water Transport: Other	5.9	0.0	0.0	29.4	0.0	64.7	17
Transportation: Other, Indeterm.	52.6	5.3	0.0	36.8	5.3	0.0	19
VISUAL AND PERFORMING ARTS							
Visual & Perform. Arts: Gen,Survey	24.6	34.5	17.4	22.2	0.0	1.4	293
Visual Communications/Analysis	39.8	24.4	8.1	17.1	4.9	5.7	123
Crafts: General	11.5	49.7	10.2	28.7	0.0	0.0	157
Ceramics	20.3	39.2	8.6	29.8	1.0	1.2	607
Fiber/Textiles/ Weaving	23.0	28.2	5.2	21.5	1.5	20.7	135
Glass	22.2	40.7	14.8	18.5	0.0	3.7	27

	Doct	Comp	LibA	CommC	Trade	Specl	N
Metal, Jewelry	28.5	40.0	2.3	25.4	0.0	3.9	130
Crafts: Other	22.0	46.3	7.3	14.6	2.4	7.3	41
Dance, Choreogr., Labanotation	39.6	40.1	4.8	15.0	0.2	0.3	1961
History of Dance	68.0	32.0	0.0	0.0	0.0	0.0	25
Design: Gen, 2D, 3D	30.1	35.4	6.5	22.0	2.3	3.8	934
Graphic Design/ Arts/Lettering	28.3	31.9	4.7	20.6	4.4	10.0	360
Illustration Design	37.6	12.9	2.0	25.7	9.9	11.9	101
Industrial Design Packaging	21.2	63.6	0.0	10.6	4.6	0.0	66
Theater Design, Stagecraft	31.3	37.6	9.2	21.0	0.7	0.2	415
Design: Other	28.1	33.8	3.8	20.6	6.3	7.5	160
Dram. Arts, Acting, Directing	36.5	33.4	12.6	16.7	0.1	0.7	1637
Hist of Theatre, Drama Criticism	31.9	43.2	11.2	13.3	0.0	0.4	686
Film Arts: Gen.	40.8	37.8	2.0	17.4	0.0	2.0	392
Cinematography/ Film-Making/Prod	31.7	39.0	5.9	15.6	0.0	7.8	205
Photography	21.4	29.7	4.2	34.2	3.6	6.9	929
Video	50.0	25.0	6.3	0.0	0.0	18.8	16

	Doct	Comp	LibA	CommC	Trade	Specl	N
Hist of Film, Theory,Criticism	39.5	43.0	7.4	7.4	1.2	1.6	256
Film Arts: Other	37.8	26.7	2.2	11.1	0.0	22.2	45
FINE ARTS							
Fine Arts: Gen, Theory, Studio	26.5	46.3	8.0	16.1	0.3	2.8	1289
Art History & Appreciation	27.7	39.4	9.5	20.3	1.6	1.5	2861
Arts Management	57.9	10.5	5.3	21.1	0.0	5.3	19
Drawing	24.8	31.9	7.1	26.5	3.9	5.9	1531
Intermedia	12.1	57.6	9.1	15.2	0.0	6.1	33
Painting	26.8	38.2	6.9	19.6	4.4	4.1	728
Sculpture	25.5	37.2	10.2	16.9	0.9	9.2	325
Printmaking, Intaglio	25.6	40.6	12.0	18.1	1.5	2.3	133
Color, Color Theory	18.2	42.1	5.7	18.2	5.7	10.2	88
Non-Western Art: History & Apprec	40.6	19.8	19.8	12.9	2.0	5.0	101
History of Architecture	69.0	12.6	3.7	10.0	1.6	3.2	190
Fine Arts: Other	29.6	43.9	10.1	11.9	1.3	3.3	396

	Doct	Comp	LibA	CommC	Trade	Specl	N
MUSIC							
Music: Ear Train, Dictation,Solfeg	25.6	45.1	6.9	17.9	0.3	4.2	1462
Music Hist & Apprec: General	21.8	44.5	9.1	22.1	0.4	2.0	1691
Music Performance Applied Music	22.6	46.8	11.3	14.6	0.5	4.2	10078
Music Theory	27.3	45.3	9.1	13.3	0.3	4.8	1741
Music Literature	28.9	48.2	8.7	12.8	0.3	1.1	367
Music History: Classical	40.0	36.8	15.5	2.3	0.7	4.8	310
Music Hist: Opera & Musical Theatr	64.3	26.2	4.8	4.8	0.0	0.0	42
Music History: Jazz	42.1	40.0	2.1	13.6	0.0	2.1	140
Music History: Pop,Rock,Folk	26.0	38.4	8.2	24.7	0.0	2.7	73
Music Hist: Afro-American Music	39.5	44.2	11.6	4.7	0.0	0.0	43
Non-Western Music	46.2	23.1	11.5	19.2	0.0	0.0	26
Music: Other, Indeterminable	27.5	48.1	9.9	6.8	0.0	7.8	426
Visual & Perform. Arts: Other,Miss	40.0	40.0	11.1	4.4	0.0	4.4	45
OTHER							
Cooperative Educ	20.4	17.5	4.4	56.3	1.5	0.0	206
Readings, Indepen Study: Fld Unspc	43.1	38.1	9.2	7.3	1.4	0.9	218

	Doct	Comp	LibA	Comm C	Trade	Specl	N
College/Freshman Orientation	5.3	35.7	2.6	53.4	2.0	1.1	852
Senior Seminars, Theses: Fld Unsp	53.2	32.3	11.3	1.6	1.6	0.0	62
Unclassifiable Titles	28.1	32.6	11.9	21.2	2.7	3.5	877
Missing	25.0	32.5	9.8	23.3	4.5	4.8	2521

A PREVIEW OF COMING ATTRACTIONS

The tables on the following pages are intended to introduce the reader to the students in the NLS/72 and its Postsecondary Transcript Sample (PETS), and to provide a small sample of the data from the records these students generated over a 14-year period. These data will be explored in detail in Archives of a Generation, containing studies on such topics as community college students, cultural literacy in the college curriculum, the careers of varsity athletes, and women's educational attainment and labor market experience.

There are some unusual revelations in the data on the following pages that should be underscored, and some conventional wisdoms that are reinforced in very powerful ways. For example:

- The amount of math, science, and foreign language one studies in high school seems directly proportional to degree attainment; the amount of trade and business courses one takes in high school seems inversely proportional to degree attainment; and the amount of fine and performing arts studied in high school seems to have nothing to do with degree attainment. Conclusion: if you prepare for college, the chances are higher that you will go and succeed; if you don't, you won't. While not shown in the table on p. 229, this conclusion holds by race and sex. What we will indicate in Archives of a Generation is how these course-taking patterns carry through college and into the workplace.

- Students attend more institutions than we think they do: 45% of all students who earned more than 10-credits (hence were "non-incidental") attended more than one institution over a 12-year period. Not all of these students "transferred" in the sense of completing a substantial amount of work at one institution, then attending a second (or third) institution at which they completed a substantial amount of work. Many of them simply took a course or two or three at another institution as incidental students. To be sure, the higher the degree attainment, the more likely a student would have attended more than one institution.

- The difference in degree attainment between students who come from households in which English is not the first language and those who come from wholly English-speaking households is negligible.

- The vast majority of students in this generation entered postsecondary education directly from high school. The length of delay in entry is inversely related to degree attainment. The 12-year time frame for the NLS/PETS strengthens this conclusion.

- Low SES students and black students, in particular, received disproportionately high shares of the scholarships awarded to this generation. For the NLS/72 cohort, at least, the financial aid system worked in terms of its principal purpose.

- Blacks are no more likely than whites to attend community colleges before they are 31 years old. For some strange reason, a mythology persists that a majority of black students attend community college. That was not true for this generation, and, in Archives of a Generation, we'll explain why.

- Seven out of eight students who earned a Bachelor's degree within 12 years of high school graduation did it within 6.5 years. The speed with which one earns the degree seems directly related to gender (women earn the degree faster than do men), scholarship support in the first two years after high school graduation, highest degree eventually earned, and type of institution awarding the degree (Liberal Arts colleges do it faster).

- Black and (in particular) Hispanic students who earn the Bachelor's degree are more likely to continue on to graduate or professional school than are white BAs. The comparatively low graduate school enrollment shares of these minority groups, on the other hand, are a consequence of their low rates of BA completion.

- A much higher proportion (42%) of Bachelor's degree students take at least one admissions test to graduate/professional school than public discussions admit.

- From high school through graduate school there is a men's curriculum and a women's curriculum. In Archives of a Generation, we will describe these curricula in more detail, and indicate their relationships to educational attainment, academic achievement, and careers.

So much for a very limited sample of conclusions. They but scratch the surface of this archive.

A word of explanation is necessary for some of the key variables and abbreviations used in the tables that follow:

SES This is a trichotomized variable, based on quartiles of socioeconomic status. The "Medium" SES category includes the 25th-74th percentiles. SES is a

	construct that includes family income, parental occupation, and level of parental education.
SAT	We converted ACT to SAT scores, then arrayed all scores in 35 bands.
Delay	The dates were dependent on transcripts received and on the quality of the dates actually recorded on the transcripts. In some cases, not all transcripts for a given student were received; in others, the dates were missing and could not be imputed from other information on the transcript.
Incid.	An "incidental" student is one who earned 10 or fewer credits in either a particular kind of institution or in his/her entire postsecondary experience through age 30.
Non-Eng. Speak.	The question in the Base Year (1972) survey was, "Is English the language spoken most often in your home?" The answer (yes/no) does not necessarily describe the student's first language.
U-G Cred	Total credits earned prior to the date of the Bachelor's degree. These data are slightly understated due to uncorrectable irregularities (missing term dates, grades, and credit information) on some transcripts.

A few of the tables on the following pages include **standard errors.** Ideally, all of them should, but our space was limited. Standard errors of measurement allow a reader to judge whether any comparison he/she wishes to make within a table is statistically significant. The procedure is simple, and requires no more than an ordinary calculator and elementary algebra. Take the two statistics you wish to compare. Subtract the smaller from the larger. Use the result as the numerator in your equation. Then look at the two standard errors for those statistics. Square each one of them. Add the squares. Take the square root of that sum, and use it as the denominator in your equation. Divide the denominator into the numerator. If the result is 2.0 or more, you have a statistically significant difference. That's a crude way of putting it, but it will do for most of us.

BASIC DEMOGRAPHY AND HIGH SCHOOL BACKGROUNDS of NLS/72 AND NLS/PETS STUDENTS

NOTE: Six analytical universes are presented, covering combinations and sub-sets of groups from the Base Year (1972) through the 5th Follow-Up (FU5) of 1986.

	ALL NLS/72* (22,652)	NO PETS** (10,053)	All PETS (12,599)	All PETS >10 Crds (10,734)	All PETS BA Degs. (4,927)	PETS IN FU5/1986 (8,205)
Male	49.9%	47.4%	51.0%	51.1%	53.0%	50.8%
Female	50.1	52.6	49.0	48.9	47.0	49.2
White	86.4	83.2	87.6	88.5	92.7	88.1
Black	9.3	11.3	8.8	8.1	5.6	8.8
Hispanic	4.3	5.5	3.6	3.4	1.8	3.1
High SES	34.0	27.9	35.7	38.5	41.1	36.9
Med. SES	48.9	53.4	48.3	45.8	48.8	47.4
Low SES	17.2	18.7	15.9	15.7	10.1	15.7
Non-English Speaking Household	7.0	6.7	7.1	7.0	6.7	6.0
SAT <700	16.4	32.4	13.8	12.8	7.3	12.4
SAT >1148	13.7	5.6	15.3	15.9	22.0	14.8
HS RANK <25%	20.1	31.4	12.3	9.6	3.7	10.7
HS RANK >79%	22.1	9.7	30.8	33.9	47.9	31.8
HS Curriculum						
>4 sems Math	29.2	16.3	38.5	41.4	52.2	39.6
>4 sems Sci	21.6	11.3	28.4	30.9	39.8	29.4
>4 sems ForL	11.3	4.6	15.9	17.5	24.1	16.3
>2 sems Trad	14.5	19.5	10.8	9.6	5.8	10.2
>2 sems Busi	26.3	32.4	22.5	20.8	14.5	22.0
>2 sems Arts	24.1	20.8	26.8	27.2	28.2	26.3
# of Postsec. Institutions Attended: 1	N.A.	N.A.	61.1	55.5	41.9	58.0
2	N.A.	N.A.	28.7	32.6	40.4	30.5
3+	N.A.	N.A.	10.2	11.9	17.7	11.5

* 9,197 took the SAT or ACT; 19,838 had H.S. class ranks computed.
** 18% of these people claimed to have attended some kind of post-secondary institution by the fall of 1979, but we were unable to obtain a validating transcript, hence they are not included in PETS.

Source: NLS/72: Special Analysis File.

HIGHEST DEGREE EARNED BY NLS/PETS STUDENTS, 1972-1984

Universe: All students who earned more than 10 postsecondary credits, i.e. nonincidental students. N=10,734. All rows add to 100.0%.

	None	Licen/ Certif	Assoc	Bach	Bach+ Some Grad	Mast	1st Prof/ Doct
All	39.1%	4.3%	10.2%	33.7%	4.0%	6.3%	2.4%
Men	39.9	3.0	9.0	34.1	4.0	6.1	3.7
Women	38.4	5.8	11.4	33.1	3.9	6.5	0.9
White	36.9	4.3	10.4	35.3	4.2	6.6	2.4
Black	55.3	4.5	7.5	24.6	1.5	4.7	2.0
Hispanic	59.8	4.7	11.6	14.6	5.1	2.9	1.4
High SES	30.9	2.0	6.9	42.7	5.1	8.5	3.9
Med. SES	41.8	5.2	12.3	30.3	3.5	5.3	1.5
Low SES	50.9	7.5	11.7	22.0	2.7	4.0	1.2
English 2nd Lang.	51.5	3.9	7.5	27.4	3.3	4.5	2.0
English 1st	47.2	4.6	8.7	28.7	3.4	5.4	2.0
By Months of Delay afer HS:							
0-6 (77.5%)	34.2	3.5	9.9	37.9	4.7	7.1	2.7
7-15 (8.7%)	50.6	6.0	10.6	25.0	3.0	3.9	0.8
16-27 (4.2%)	52.5	7.2	12.4	21.7	1.7	3.4	1.1
28-51 (5.2%)	56.0	8.6	11.2	18.0	0.8	3.6	1.8
52+ (4.6%)	69.4	6.7	11.9	8.2	0.2	3.3	0.4
By H.S. Class Rank:							
90-100 %tile	19.9	2.0	5.1	45.9	6.8	13.6	6.6
80-89 %tile	29.8	3.2	8.8	41.7	5.7	7.8	3.0
65-79 %tile	35.0	4.3	10.1	37.4	3.9	7.4	2.0
50-64 %tile	43.8	3.8	12.2	32.4	3.2	3.5	1.1
25-49 %tile	50.9	6.4	12.7	24.4	2.4	2.7	0.6
1-24 %tile	62.3	6.9	12.8	15.1	1.0	1.5	0.4
By SAT Score:							
1303+	12.3	0.4	0.5	51.5	3.5	17.3	14.6
1149-1302	19.6	0.6	2.5	48.2	7.6	12.6	9.0
976-1148	22.9	1.3	6.0	49.5	6.2	10.6	3.6
834-975	34.9	2.8	9.8	40.2	3.8	6.8	1.7
701-833	41.9	3.6	12.5	33.8	3.4	4.4	0.5
571-700	48.9	4.8	13.4	26.0	3.1	3.9	0.1
400-570	53.6	4.3	10.5	23.7	4.9	2.9	---

Source: NLS/72: Special Analysis File

POSTSECONDARY SCHOLARSHIP SUPPORT TO THE HIGH SCHOOL CLASS OF 1972

Universe: All students with any completed nontransfer courses, 1972-1984. N=12,332. Standard errors are in parentheses.

	Scholarship at any time, 1972-1974		Scholarship at any time, 1975-1979 Only		Never Received Scholarship	
All	27.9%	(.228)	16.4%	(.159)	55.7%	(.222)
Men	26.6	(.273)	18.0	(.206)	55.4	(.277)
Women	29.3	(.299)	14.8	(.200)	55.9	(.295)
White	26.4	(.230)	15.7	(.174)	57.9	(.230)
Black	39.6	(.639)	24.1	(.450)	36.3	(.598)
Hispanic	35.8	(.901)	16.5	(.478)	47.7	(.689)
High SES	23.0	(.289)	15.8	(.193)	61.2	(.332)
Med. SES	28.6	(.322)	15.8	(.229)	55.6	(.291)
Low SES	37.2	(.497)	18.6	(.316)	44.2	(.508)
By Highest Degree:						
None	19.1	(.268)	14.7	(.179)	66.2	(.238)
Certif/License	14.3	(.714	18.1	(1.10)	67.6	(1.12)
Associate's	26.2	(.665)	16.3	(.330)	57.5	(.696)
Bachelor's	37.9	(.330)	17.7	(.306)	44.4	(.356)
Graduate	49.3	(.786)	20.7	(.459)	30.0	(.818)

Source: NLS/72: Special Analysis File

BASIC DEMOGRAPHY OF 2/4-YEAR and TRANSFER ATTENDANCE PATTERNS

Universe: All NLS/PETS students whose records show any completed non-transfer courses (N=12,332). Standard errors in parentheses.

Note: All columns add to 100.0%

	White	Black	Hisp.	Male	Female	All
Classic Transfer: AA, then BA	3.6% (.075)	1.1% (.100)	2.9% (.171)	3.8% (.104)	2.9% (.080)	3.4% (.067)
Transfer: BA/no AA	3.4 (.071)	2.7 (.176)	2.1 (.447)	3.7 (.113)	2.8 (.069)	3.3 (.071)
Transfer: AA/no BA	1.8 (.065)	0.9 (.035)	1.3 (.058)	1.7 (.072)	1.7 (.087)	1.7 (.058)
Terminal AA, w/ Incidental 4-yr	5.9 (.106)	3.7 (.180)	6.7 (.436)	5.1 (.112)	6.4 (.145)	5.7 (.099)
No Degree: Non-Incid. 2 & 4 yr	2.5 (.049)	3.0 (.228)	5.0 (.414)	2.8 (.074)	2.5 (.079)	2.7 (.050)
No Degree: Non-Incid. 2 yr only	14.9 (.215)	18.3 (.688)	26.9 (.859)	15.8 (.192)	15.5 (.348)	15.6 (.217)
No Degree: Incidental 2 year	7.1 (.105)	10.8 (.281)	12.7 (.287)	7.3 (.124)	7.9 (.163)	7.6 (.098)
No 2-Year, but 4-year	50.2 (.351)	47.8 (.714)	30.8 (1.027)	50.7 (.356)	47.9 (.432)	49.3 (.331)
No 2-Year, no 4-year	6.5 (.149)	8.5 (.394)	8.0 (.384)	5.6 (.169)	7.8 (.196)	6.7 (.138)
Other Patterns*	4.2 (.069)	3.1 (.148)	3.6 (.498)	3.6 (.077)	2.9 (.075)	4.1 (.065)

*Two-thirds of these cases involve Associate's degrees awarded by institutions other than community colleges, principally by 4-year colleges.

Source: Clifford Adelman, *Using Transcripts to Validate Institutional Mission*. Washington, D.C.: Office of Research, U.S. Department of Education, 1990. OR Working Paper #90-523.

DATE OF BACHELOR'S DEGREE:
High School Class of 1972

Universe: All NLS/PETS students for whom an undergraduate transcript indicating a Bachelor degree was received. N=4,927. Note: All rows add to 100.0%.

	<1976	1976	1977	1978	1979	1980	1981-1984
All	4.8%	55.2%	19.9%	7.8%	4.1%	3.3%	5.0%
Men (53.0%)	3.8	50.9	22.7	9.6	4.5	3.7	5.5
Women (47.0%)	6.7	60.1	16.7	5.7	3.7	2.8	4.4
White (92.7%)	4.7	56.1	19.8	7.5	3.9	3.1	4.9
Black (5.6%)	5.6	48.7	21.2	8.7	5.2	3.8	6.7
Hispan (1.8%)	3.8	32.6	17.5	16.0	11.8	12.2	5.6
High SES (41.1%)	5.6	57.4	20.2	7.6	2.9	2.2	3.9
Med SES (48.8%)	3.8	54.6	19.7	7.5	4.8	3.8	5.7
Low SES (10.1%)	4.7	48.0	18.2	9.0	6.9	6.3	6.9
By Months Delay in Entry to PSE:							
0-6 (88.4%)	5.2	59.3	19.5	6.9	3.3	2.3	3.5
7-18 (6.1%)	2.1	30.0	32.7	16.0	6.6	5.2	7.3
19-30 (2.5%)	3.5	38.5	14.2	15.4	7.5	9.1	11.9
31-54 (2.3%)	---	2.6	12.7	12.6	23.2	24.7	24.3
55+ (0.8%)	---	---	---	2.5	8.1	15.0	74.4
By 2-Year Coll. Attendance:							
Tran w/AA (8.5%)	1.9	36.0	23.5	16.0	8.1	6.7	7.9
Tran no AA (8.2%)	2.6	34.7	26.6	13.3	7.6	6.2	9.1
No 2-Year (76.3%)	5.3	59.6	18.8	6.4	3.4	2.4	4.2
Oth Pattrn (7.0%)	5.4	57.6	18.1	6.9	3.2	3.6	5.1
By Highest Degree							
BA (74.0%)	3.4	51.6	21.1	8.7	4.7	4.1	6.3
BA+ (8.7%)	8.1	59.1	20.2	7.1	3.3	0.7	1.5
Master (12.8%)	8.9	67.2	15.3	4.2	2.3	1.0	1.2
Doct (4.5%)	9.4	73.8	11.4	4.0	1.0	0.2	0.2
By Type Instit. Awarding BA							
Doctoral (38.9%)	4.9	54.2	21.6	8.2	3.6	2.8	4.6
Compreh. (48.0%)	5.0	54.9	19.1	7.5	4.3	3.7	5.5
Lib.Arts (10.0%)	3.2	66.1	15.3	5.6	4.4	1.8	3.6
Special (2.9%)	3.1	37.3	23.4	14.5	8.0	7.2	6.5

Source: NLS/72: Special Analysis File.

DATE OF ASSOCIATE'S DEGREE:
High School Class of 1972

Universe: All students for whom the Associate's degree was the highest degree earned. N=1,055. Note: All rows add to 100.0%

	1972-1974	1975	1976	1977	1978	1979-1980	1981-1984
All	38.4%	19.7%	10.7%	5.9%	5.9%	9.6%	9.9%
Men (45.4%)	34.6	20.6	13.7	5.1	5.9	11.0	9.0
Women (54.6%)	41.5	18.9	8.1	6.5	5.8	8.3	10.7
White (90.2%)	40.0	19.0	10.8	6.2	5.1	9.2	9.8
Black (5.9%)	21.4	28.0	7.5	1.1	14.3	13.1	14.6
Hispan (3.9%)	28.4	23.4	13.2	5.8	11.3	12.4	5.4
High SES (25.6%)	30.1	22.5	11.8	8.1	5.5	10.0	12.0
Med. SES (55.4%)	44.0	17.7	10.6	5.3	4.5	8.0	9.9
Low SES (18.0%)	34.0	21.9	9.2	4.8	10.3	13.0	7.0
By Months Delay in Entry to PSE:							
0-6 (75.6%)	49.3	20.6	10.2	5.2	3.8	5.6	5.4
7-18 (9.0%)	11.0	39.5	14.0	7.5	4.7	17.0	6.4
19-30 (5.2%)	5.2	11.2	32.5	9.5	11.7	15.0	15.0
31-54 (5.7%)	---	---	0.9	13.3	29.6	28.8	27.5
55+ (4.9%)	---	---	---	1.5	7.2	29.1	62.3
By 2-Yr College Attendance:							
Transf no BA (19.1%)	34.9	16.7	16.9	5.2	9.7	11.0	5.7
AA+Incid 4-Yr (64.8%)	37.5	21.2	9.4	5.6	4.9	10.0	11.3
No 2-Year* (10.7%)	43.6	19.5	7.7	9.8	4.4	5.6	9.4
Sp.School (3.6%)	61.4	10.8	11.8	5.3	2.6	1.7	6.4
Other Pattern (1.9%)	33.0	15.6	6.5	---	14.7	15.6	14.7
Scholarship: '72-74							
Yes (26.2%)	51.7	23.9	7.4	1.7	4.4	4.3	6.5
No (73.8%)	35.6	18.8	11.4	6.8	6.2	10.7	10.7

* These students received their Associate's degrees from 4-year institutions.

Source: NLS/72: Special Analysis File.

AFTER THE BACHELOR'S:
Courses of Study and Degrees Earned, by Field

Universe: All NLS/PETS students who earned at least 11 credits after the Bachelor's degree. N=1,365. It is obvious that some of these students are included in more than one of the three universes below.

Note: All columns add to 100.0%

	N=445		N=701		N=255	
	>10 Credits After BA, but No Degree		Master's		Doctorate/ 1st Profess.	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
ALL	51.4%	48.5%	50.3%	49.7%	80.4%	19.6%
Education	14.4	39.4	12.6	37.4	---	3.2%
Business	18.3	8.8	22.6	5.3	0.6%	---
Engineering	5.8	0.9	8.6	0.8	1.7	---
Fine Arts	---	5.1	1.4	0.9	---	---
Psychology	5.0	2.0	2.6	4.4	1.0	3.2
Physical Sci.	4.3	1.8	5.1	2.2	3.7	5.6
Social Sciences	3.8	0.2	5.6	3.6	2.4	3.9
Theology	3.4	---	5.3	2.4	0.4	---
English	1.0	3.4	3.1	5.4	0.8	---
Performing Arts	3.2	1.6	3.3	4.2	---	4.1
Biology	3.0	2.2	3.9	1.1	3.5	2.9
Allied Health	1.1	2.6	3.2	10.9	0.8	---
Journalism, etc.	2.5	2.5	2.4	---	---	---
Computer Sci	1.6	1.7	1.1	1.1	---	---
Architecture	0.7	1.5	1.1	0.6	---	---
Agric/Nat Resour	1.0	0.5	2.5	0.8	0.3	1.1
Law	2.4	0.9	---	---	34.7	39.8
Dentistry	---	0.4	---	---	12.6	9.4
Medicine	---	---	---	---	23.0	23.1
Other Hlth Prof	2.4	---	0.1	---	11.1	3.9
Public Administ.	2.7	0.4	3.5	1.3	---	---
Social Work	---	---	1.1	3.2	---	---
Nursing	0.8	1.5	---	3.4	---	---
Library Science	0.8	0.5	0.1	3.7	---	---
Other Fields	13.2	12.5	10.8	7.3	3.4	---
Indeterminable	8.6	9.6	---	---	---	---

Source: NLS/72: Special Analysis File.

BACHELOR's DEGREE MAJORS OF THE NLS/PETS STUDENTS

NOTE: All NLS/PETS students whose records include a transcript for a Bachelor's degree. N=4,927.* Note: All columns add to 100.0%.

Major	ALL	MEN	WOMEN	WHITE	BLACK	HISP
Business	16.1%	22.7%	8.7%	16.3%	15.5%	9.9%
Education	16.5	8.5	25.5	16.2	21.9	15.1
Applied Soc. Sci.[1]	8.0	6.3	9.9	7.9	9.7	8.9
Vocational Services[2]	1.2	0.9	1.5	1.2	1.4	2.8
Engineering/Comput	5.0	8.9	0.5	5.2	1.7	3.0
Phys Sci/Math	4.2	5.6	2.6	4.2	3.6	6.7
Biological Sciences	6.4	7.8	4.8	6.6	3.8	4.1
Applied Sciences[3]	3.3	4.7	1.8	3.4	2.7	4.2
Health Sci/Services	7.7	2.9	13.1	7.7	7.1	6.8
Technical/Trade	1.4	2.4	0.2	1.4	0.6	2.6
Humanities	6.1	4.1	8.2	6.1	5.1	6.2
Arts	4.6	2.9	6.5	4.7	3.0	4.5
Social Sciences	17.5	19.4	15.0	17.1	23.0	24.0
Other	2.2	2.8	1.5	2.2	1.1	1.6

1. Includes Communications, Criminal Justice, Social Work, Home Economics, Public Administration.
2. Includes Business Support Services, Vocational Home Economics, Library Science, Recreation.
3. Includes Agriculture, Natural Resources, Forestry, Architecture, Science Technologies.

* There were 75 students in the NLS/PETS for whom we received a graduate school transcript but no undergraduate transcript. These students are not included here.

Source: NLS/72: Special Analysis File.

COLLEGE EXPERIENCES/ATTAINMENTS OF BACHELOR'S DEGREE HOLDERS IN THE NLS/PETS

By Undergraduate Major

	% of BAs	CHANGED MAJOR	MEAN U-G CRED	MEAN GPA	MEAN TOTAL TIME[1]	TOOK GRAD TEST[2]	% of BAs in FU5[3]
Engineer/CompSc	5.0%	20.5%	132.4	2.98	5.34	40.2%	4.9%
Phys Sci/Math	4.2	31.5	126.3	3.03	6.29	54.4	4.0
Biological Sci	6.4	28.9	122.0	3.05	6.16	73.7[4]	6.5
Applied Sci	3.3	26.2	131.0	2.92	5.81	36.0	3.2
Hlth Sci/Servs.	7.7	21.7	128.0	3.05	5.46	46.5	7.8
Technical/Trade	1.4	17.2	131.6	2.96	5.43	5.0	1.2
Business	16.1	28.0	122.6	2.83	5.13	34.8	17.0
Education	16.5	22.7	120.4	3.02	6.19	36.0	16.4
Appld. Soc. Sci.	8.0	35.8	118.9	2.92	5.21	33.6	7.6
Vocat.Service	1.2	42.8	123.3	2.94	5.38	36.8	1.1
Humanities	6.1	33.7	117.2	3.13	5.96	55.7	5.3
Arts	4.6	26.3	121.4	3.10	5.55	22.1	5.0
Social Sci	17.5	34.1	117.8	3.00	5.59	46.6	17.8
Other	2.2	27.5	120.1	3.05	6.13	53.2	2.2
ALL	----	28.4	122.1	2.99	5.66	42.1	---

NOTES:

1. Total time spent in postsecondary education between the ages of 18 and 30.
2. In the 5th (1986) Follow-Up, indicated that they had taken at least one admissions test for graduate/professional school.
3. Not all of the BAs in the NLS/PETS sample participated in the 5th (1986) follow-up survey.
4. Obviously, a significant proportion of this group consisted of pre-meds who took the MCAT.

Source: NLS/72: Special Analysis File.

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